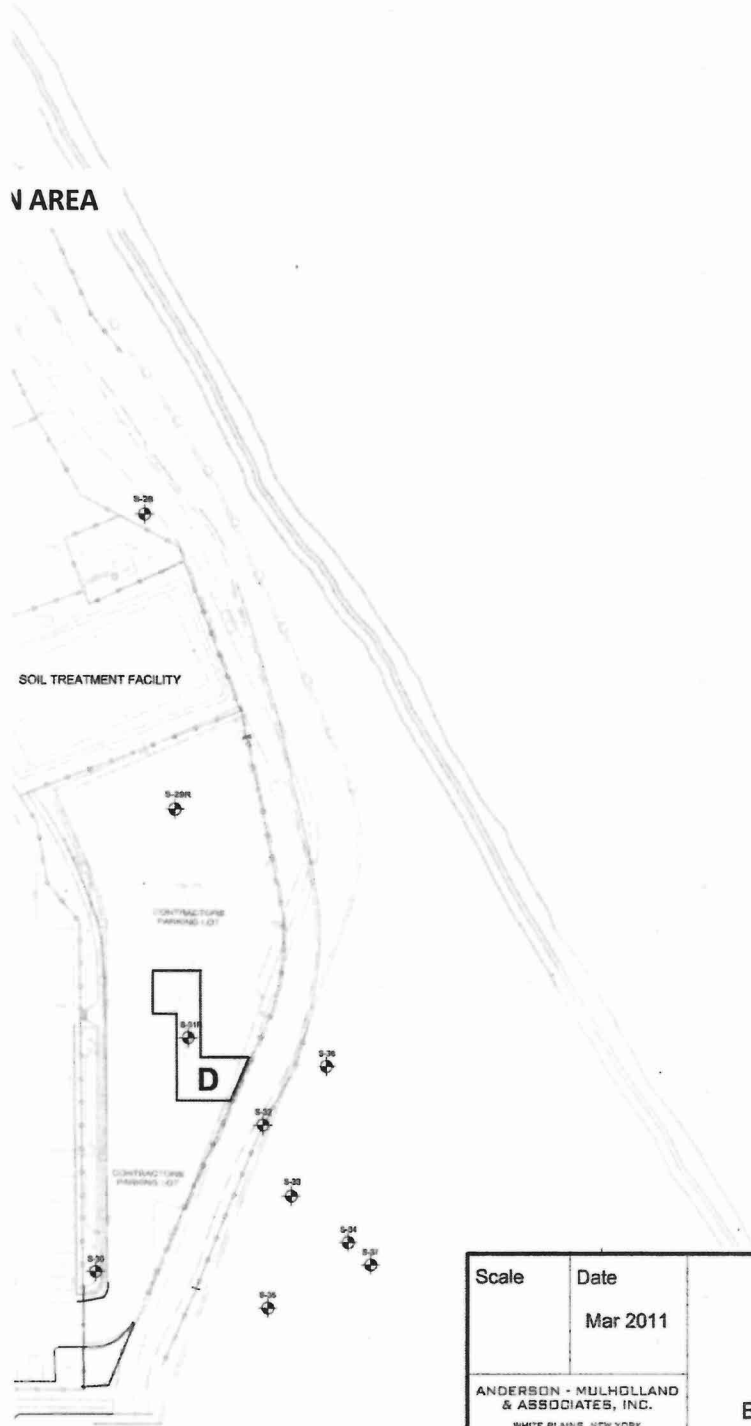


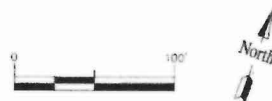
Figures

W AREA



LEGEND:

- S-28
MONITORING WELL
- A
EXCAVATION AREA



Scale

Date

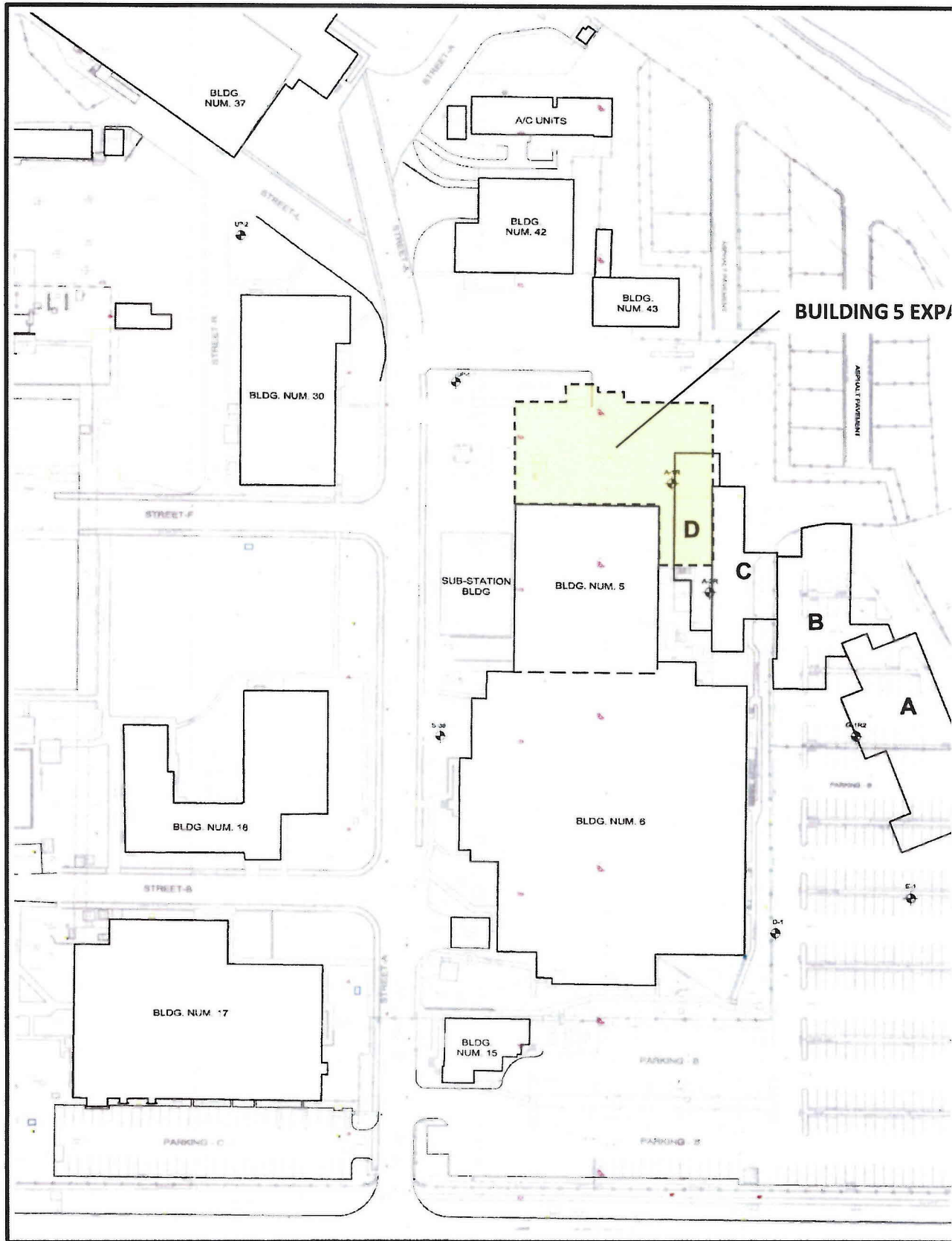
Mar 2011

ANDERSON - MULHOLLAND
& ASSOCIATES, INC.
WHITE PLAINS, NEW YORK

Figure 1

Building 5 Expansion Area

Bristol-Myers Squibb Manufacturing Company
Humacao, Puerto Rico



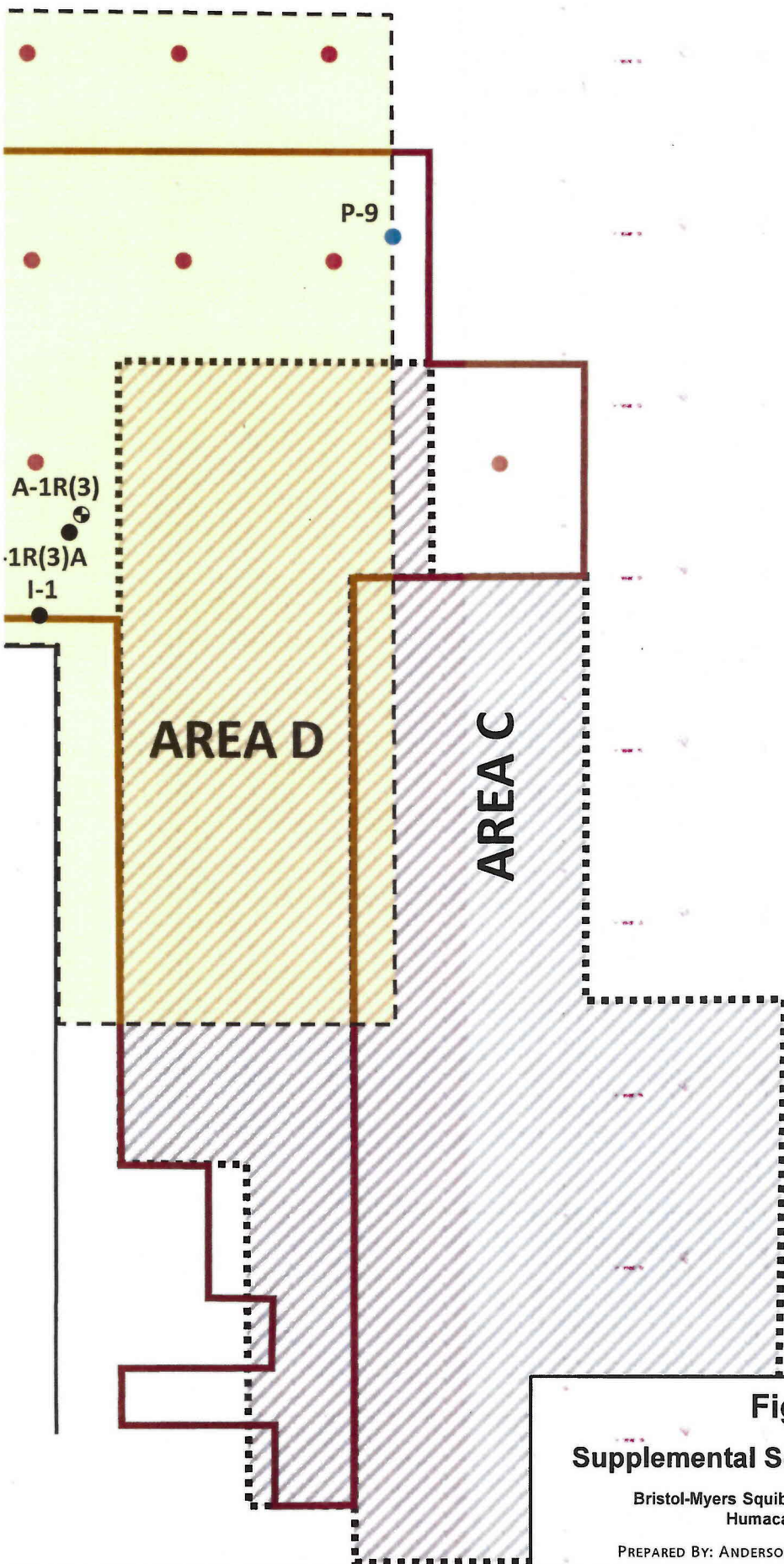
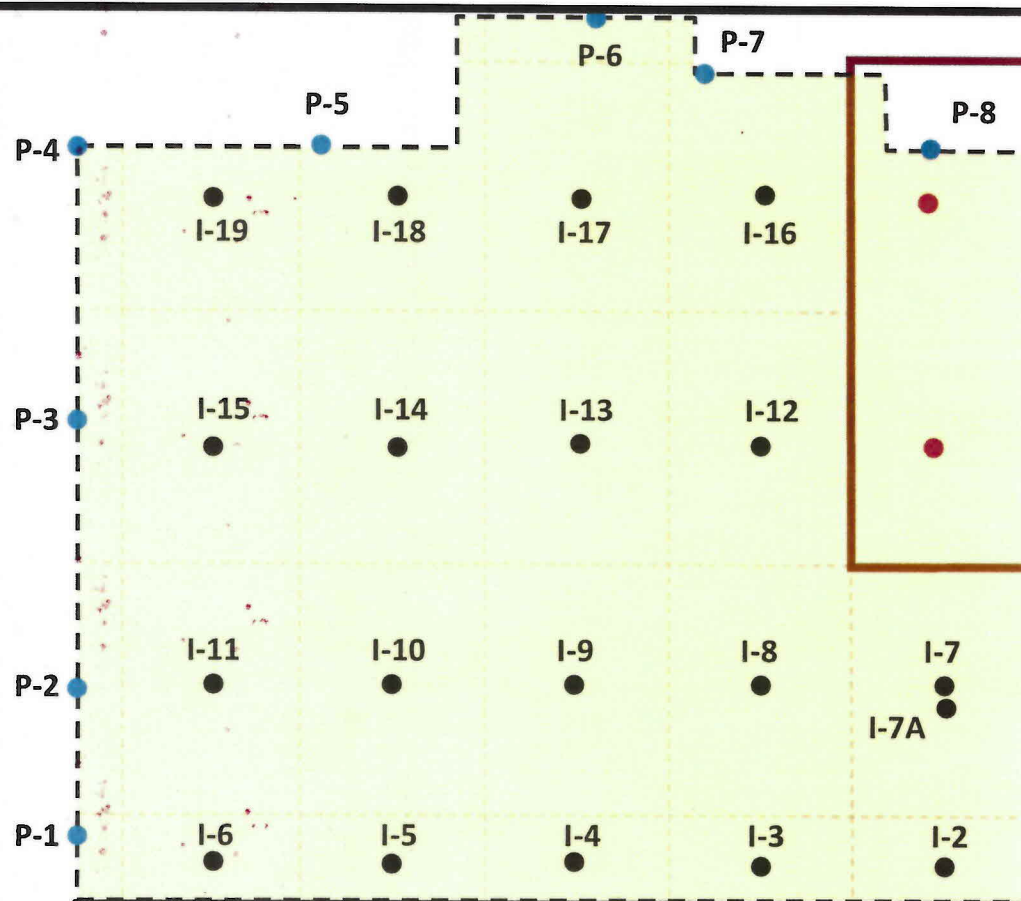


Figure 2
Supplemental Soil Boring Locations

Bristol-Myers Squibb Manufacturing Company
Humacao, Puerto Rico

PREPARED BY: ANDERSON - MULHOLLAND & ASSOC, INC.



**EXISTING
BUILDING 5**

LEGEND



PLANNED BUILDING 5 EXPANSION



I-1 FOOTPRINT SOIL BORING



P-1 PERIMETER SOIL BORING



PRE-DESIGN SOIL BORING (2007)



MONITORING WELL



AREA C & D EXCAVATION AREA



ORIGINAL SCHEDULED AREA D REMOVAL



GRAPHIC SCALE IN FEET

i (6-7)	
0.249 J	
0.57 U	
0.057 U	
1.84	
0.12 U	
0.23 U	
0.057 U	
6.04	

	I-7A (4-4.5)	I-7 (10-11)
MIBK	0.0055 U	1080
Acetone	0.011 U	127
Benzene	0.0011 U	0.0335 J
Ethylbenzene	0.0011 U	1320
Isopropyl Alcohol	0.12 U	500
Methanol	0.24 U	1050
Toluene	0.0011 U	64.1
Xylene (total)	0.0011 U	4900

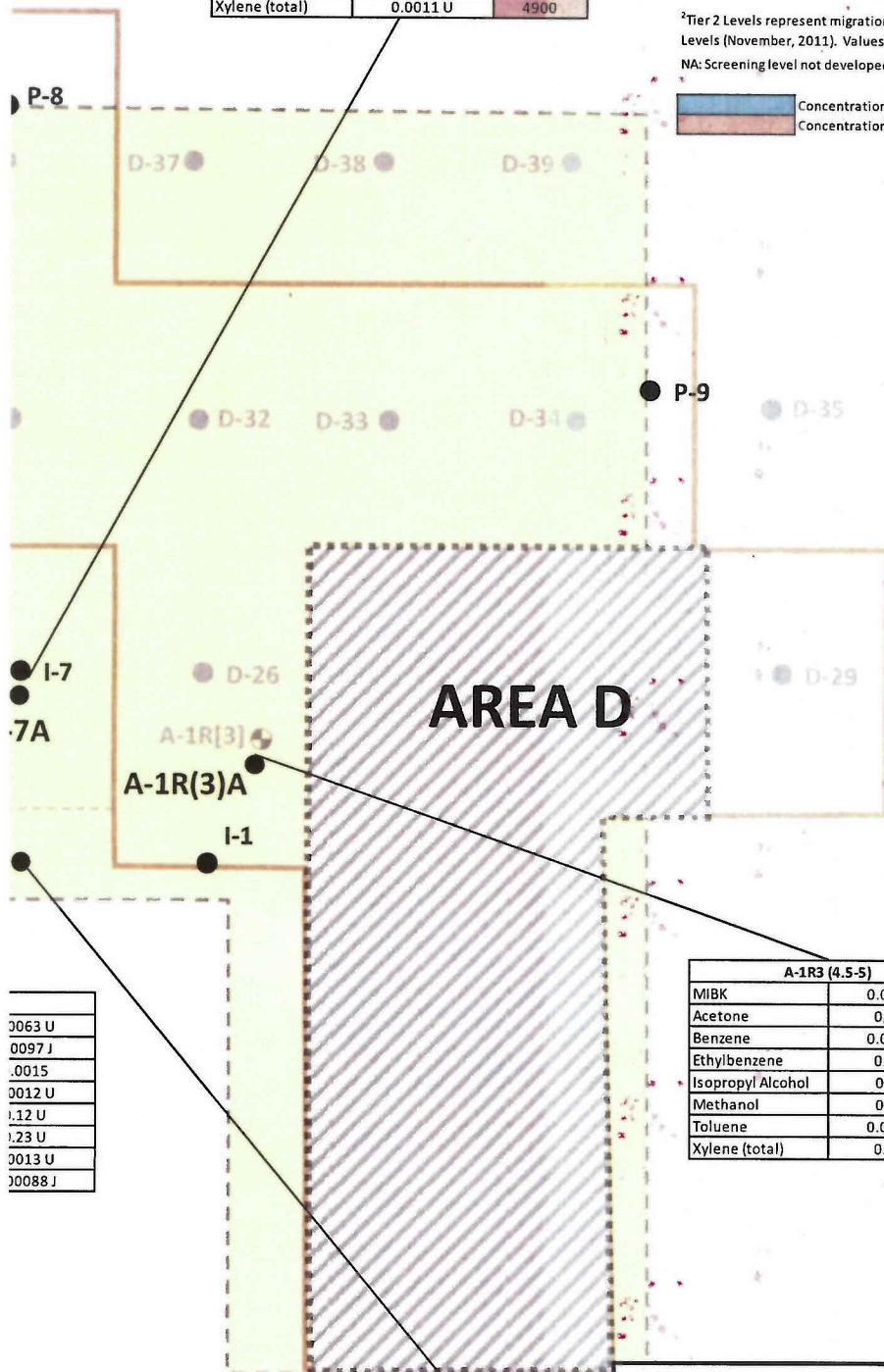
Screening Tiers	Tier 1 RCRA Subtitle D ¹	Tier 2 USEPA RSLs ²
COC	Concentration (mg/kg)	
MIBK	330	4.6
Acetone	1600	48
Benzene	100	0.052
Ethylbenzene	100	15.6
Isopropyl Alcohol	NA	NA
Methanol	NA	32
Toluene	100	13.8
Xylene (total)	300	196

¹Tier 1 Levels represent alternative land disposal restriction treatment standards for contaminated media (i.e., ten times the universal treatment standard) in accordance with 40CFR §268.49(c)(1)(c).

²Tier 2 Levels represent migration to groundwater screening levels from EPA Regional Screening Levels (November, 2011). Values shown are based on a dilution attenuation factor of 20.

NA: Screening level not developed for this COC

Concentration is greater than Tier 2 Level and less than Tier 1 Level
Concentration is greater than Tier 1 Level



0063 U
0097 J
0015
0012 U
0.12 U
0.23 U
0013 U
00088 J

A-1R3 (4.5-5)	
MIBK	0.0054 U
Acetone	0.0296
Benzene	0.0011 U
Ethylbenzene	0.0121
Isopropyl Alcohol	0.12 U
Methanol	0.25 U
Toluene	0.0011 U
Xylene (total)	0.0346

I-2 (10-10.5)	
MIBK	106
Acetone	2.85
Benzene	0.079 U
Ethylbenzene	57.5
Isopropyl Alcohol	2.85
Methanol	3.32
Toluene	54.9
Xylene (total)	229

Figure 3

Distribution of COCs in Footprint Soil Borings

Bristol-Myers Squibb Manufacturing Company
Humacao, Puerto Rico

PREPARED BY: ANDERSON - MULHOLLAND & ASSOC., INC.

I-19 (8-9)	
MIBK	0.0053 U
Acetone	0.0132
Benzene	0.00051 J
Ethylbenzene	0.0078
Isopropyl Alcohol	0.12 U
Methanol	0.23 U
Toluene	0.0011 U
Xylene (total)	0.0232

I-18 (7-8)	
MIBK	0.0053 U
Acetone	0.0077 J
Benzene	0.00031 J
Ethylbenzene	0.0017
Isopropyl Alcohol	0.11 U
Methanol	0.22 U
Toluene	0.0011 U
Xylene (total)	0.0119

I-17 (10-11)	
MIBK	34.9
Acetone	30 U
Benzene	3 U
Ethylbenzene	1710
Isopropyl Alcohol	1.22
Methanol	0.301
Toluene	4.42
Xylene (total)	5550

MIBK	
Acetone	
Benzene	
Ethylben	
Isopropy	
Methanol	
Toluene	
Xylene (t	

I-14 (8.5-9.5)	
MIBK	0.0059 U
Acetone	0.012
Benzene	0.00042 J
Ethylbenzene	0.0325
Isopropyl Alcohol	0.13 U
Methanol	0.25 U
Toluene	0.0012 U
Xylene (total)	0.0826

I-15 (5-6)	
MIBK	0.0051 U
Acetone	0.0078 J
Benzene	0.00076 J
Ethylbenzene	0.00038 J
Isopropyl Alcohol	0.12 U
Methanol	0.24 U
Toluene	0.001 U
Xylene (total)	0.0075

I-13 (12.5-13.5)	
MIBK	0.0058 U
Acetone	0.0201
Benzene	0.0016
Ethylbenzene	0.00031 J
Isopropyl Alcohol	0.12 U
Methanol	0.731
Toluene	0.0012 U
Xylene (total)	0.0113

I-12 (9.5-10.5)	
MIBK	127
Acetone	69.8
Benzene	0.06 U
Ethylbenzene	361
Isopropyl Alcohol	40.1
Methanol	0.23 U
Toluene	1.06
Xylene (total)	1270

I-6 (8.5-9.5)	
MIBK	0.0062 U
Acetone	0.012 U
Benzene	0.0012 U
Ethylbenzene	0.0012 U
Isopropyl Alcohol	0.13 U
Methanol	0.27 U
Toluene	0.0012 U
Xylene (total)	0.0012 U

I-5 (9-10)	
MIBK	0.0061 U
Acetone	0.0233
Benzene	0.0012 U
Ethylbenzene	0.0012 U
Isopropyl Alcohol	0.14 U
Methanol	0.28 U
Toluene	0.0012 U
Xylene (total)	0.0012 U

I-9 (8.5-9.5)	
MIBK	0.0059 U
Acetone	0.012 U
Benzene	0.00048 J
Ethylbenzene	0.0523
Isopropyl Alcohol	0.13 U
Methanol	0.26 U
Toluene	0.0012 U
Xylene (total)	2.66

I-4 (5-6)	
MIBK	240
Acetone	95.7
Benzene	0.76 U
Ethylbenzene	540
Isopropyl Alcohol	62
Methanol	0.487
Toluene	178
Xylene (total)	2000

I-3 (5-6)	
MIBK	5.26
Acetone	11.5
Benzene	0.0192 J
Ethylbenzene	191
Isopropyl Alcohol	57
Methanol	0.25 U
Toluene	444
Xylene (total)	736

I-8	
MIBK	
Acetone	
Benzene	
Ethylbenzene	
Isopropyl Alcohol	
Methanol	
Toluene	
Xylene (total)	

P-7 (0-1)	
	0.0055 U
	0.0084 J
	0.0011 U
	0.00037 J
ol	0.12 U
	0.252
	0.0011 U
	0.00064 J

P-8 (4-5)	
MIBK	0.0054 U
Acetone	0.011 U
Benzene	0.0011 U
Ethylbenzene	0.0011 U
Isopropyl Alcohol	0.12 U
Methanol	0.257
Toluene	0.0011 U
Xylene (total)	0.0011 U

P-9 (4.5-6)	
MIBK	850
Acetone	25.7 J
Benzene	0.0462 J
Ethylbenzene	488
Isopropyl Alcohol	7.39
Methanol	2.68
Toluene	1.84
Xylene (total)	1750

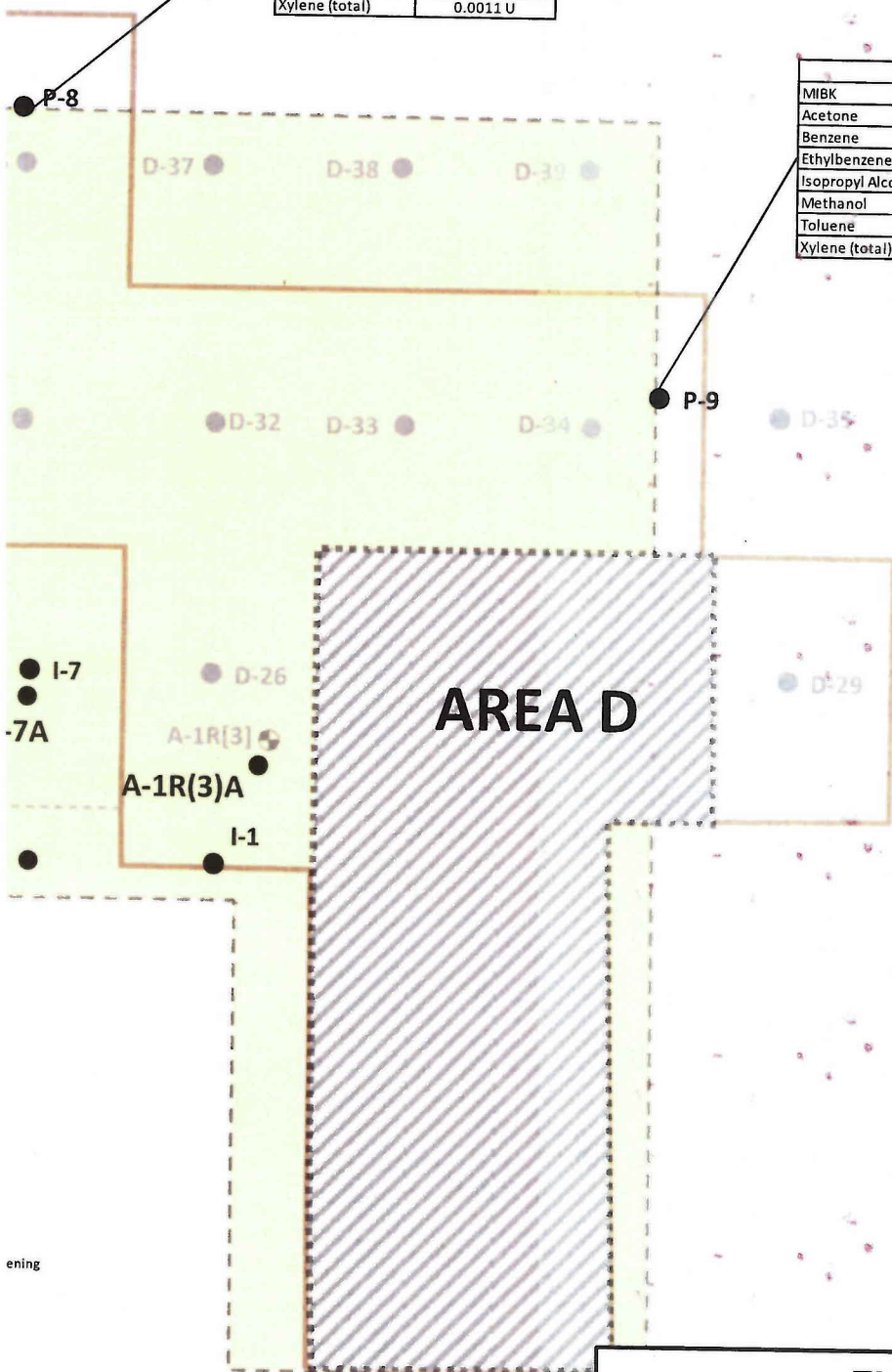


Figure 4
Distribution of COCs in Perimeter Soil Borings

Bristol-Myers Squibb Manufacturing Company
 Humacao, Puerto Rico

PREPARED BY: ANDERSON - MULHOLLAND & ASSOC, INC.

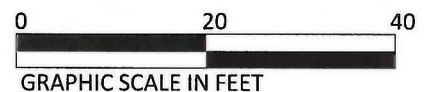
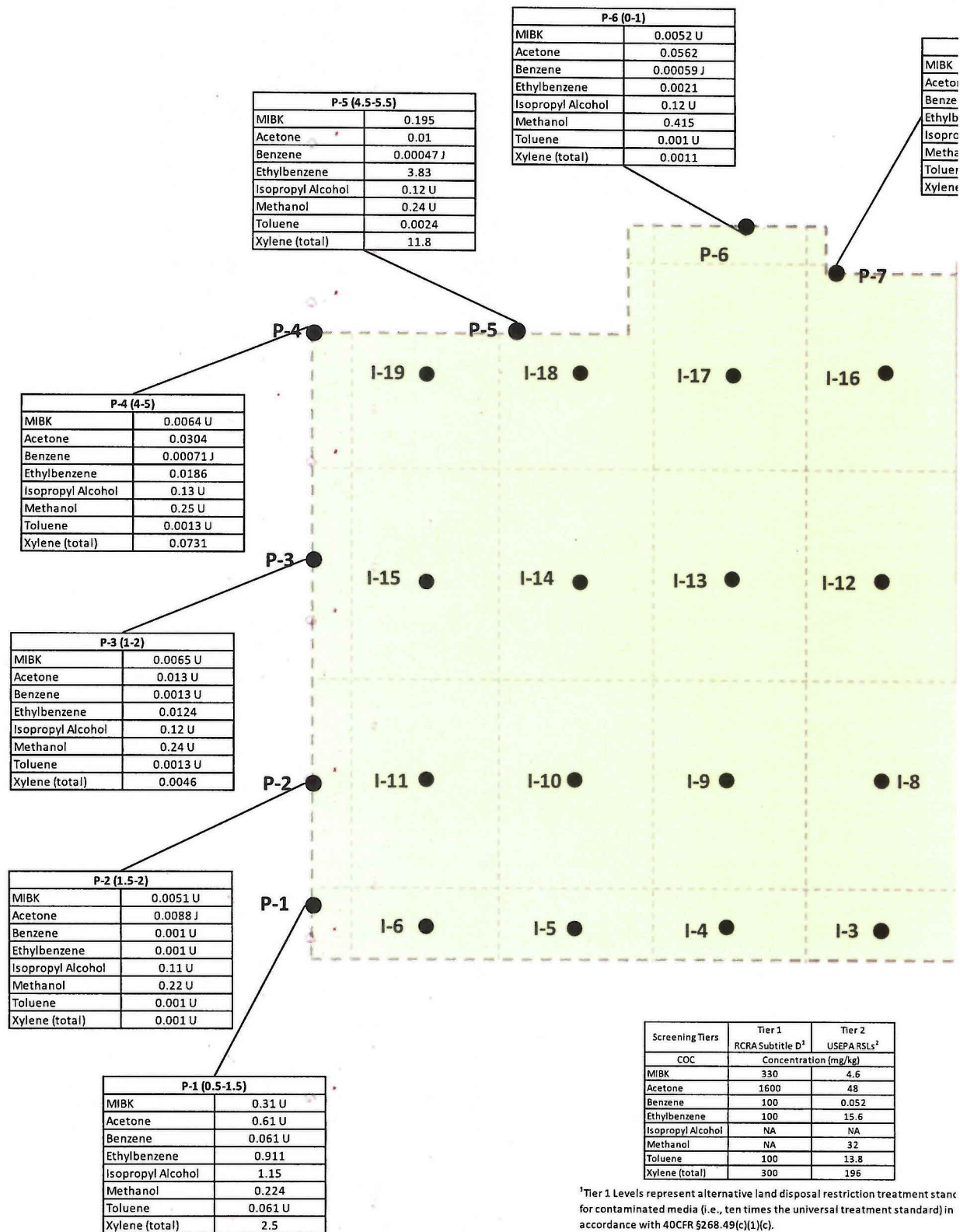


Figure 5
Transect A Cell Profiles
Building 5 Area Supplemental Soil Investigation

Depth	P-1	I-6	I-5	I-4	I-3	I-2	I-1	Depth
<i>Ground Surface</i>								
0	275	200	25	7000	0	NR	20	0
0.5	583	438	36	9999	66	NR	31	0.5
1	500	127	NR	9999	94	NR	19.5	1
1.5	NR	360	NR	9999	NR	NR	4000	1.5
2	NR	NR	NR	9999	NR	NR	NR	2
2.5	NR	NR	NR	NR	NR	NR	NR	2.5
3	NR	NR	NR	NR	NR	NR	NR	396
3.5	NR	NR	NR	NR	NR	NR	NR	3.5
4	100	129	57	3000	80	9999	1700	4
4.5	235	240	70	4000	155	9999	1200	4.5
5		450	68	9999	1700	9999	9999	5
5.5		428	89	9999	4500	9999	9999	5.5
6		160	178	1500	700	4790	9999	6
6.5		300	NR	200	105	9999	3500	6.5
7		NR	NR	NR	671	1000	2800	7
7.5		NR	NR	NR	NR	903	Refusal	7.5
8		1380	51	340	NR	1000		8
8.5		911	19	860	NR	500		8.5
9		995	42	670	NR	250		9
9.5		420	98	536	NR	9999		9.5
10		18	66	75	NR	900		264
10.5		NR	129	NR	NR	132		10.5
11		NR	NR	NR	NR	NR		11
11.5		NR	NR	NR	NR	NR		11.5
12		590			NR	9999		12
12.5		40			Refusal	9999		12.5
13		310				9999		13
13.5						1300		13.5
14						200		14
14.5						20		14.5
15						20		15
15.5						40		15.5
<i>Impacted Soil Volume (cubic yards)</i>								
	0	0	0	75	56	78	56	

Notes:

NR = No Recovery

SL = Slight

MOD = Moderate

STR = Strong

 Impacted soil

 Potentially impacted soil

Figure 6

Transect B Cell Profiles
Building 5 Area Supplemental Soil Investigation

Depth	P-2		I-11		I-10		I-9		I-8		I-7/I-7A		D-26/A-1R3/A-1R3A		D-27		D-28		D-29		Depth
Ground Surface																					
0	15	No Odor	Refusal	890	No Odor	3	No Odor	91	No Odor	9	No Odor	0								0	
0.5	87			150		46		354		4				0	1	0	0.5				
1	71			30		85		484		15		0	0	0	0	1	1				
1.5	247	ND		NR	288	NR		11					9		2	1.5					
2	NR			NR	NR	NR		18		0			99		51	2					
2.5	NR			NR	NR	NR		36				308		869	2.5						
3	NR	No Odor		NR	NR	NR		NR		NR			396		982	3					
3.5	NR			Refusal	NR	NR		NR				400		209	3.5						
4	20				16	140		1477		250				1078	4						
4.5	70			190	140	21	400	0.035	65			4.5									
5	69			312	578	38	0		400	60			5								
5.5	30			64	240	66						1017	5.5								
6					30	SL Odor	528	SL Odor	20	MOD Odor	0.5									327	6
6.5				NR	NR		70		0		5.4				708	1830	6.5				
7				NR	NR		NR		2		1			103	7						
7.5		NR		NR	NR		2.9						349	7.5							
8				94	824	41	2.3				321	8									
8.5				330	636	244	45.4				330	8.5									
9				81	738	1030	310	2679			207	9									
9.5				90	770	995	2192	394			83	9.5									
10				175	1247	9999	555	264			124	10									
10.5				NR	NR	9999	153				650	10.5									
11				NR	NR	2300	48	1704			481	11									
11.5				71	NR	NR	44				112	11.5									
12					9999	9999					6	12									
12.5					9999	NS					10	12.5									
13					9999	NS			0		8	13									
13.5					2000	NS							13.5								
14			9999	NS	0.001	NS			301	64		14									
14.5			9999	NS				127	16		14.5										
15			1340					3	7		15										
15.5									1				15.5								
Impacted Soil Volume (cubic yards)																					
	0		0		0		0		83		125		83						187		

Notes:

NR = No Recovery

SL = Slight

MOD = Moderate

STR = Strong

 Impacted soil


 Potentially impacted soil

Figure 7
Transect C Cell Profiles
Building 5 Area Supplemental Soil Investigation

Depth	P-3	I-15	I-14	I-13	I-12	D-31	D-32	D-33	D-34/P-9	D-35	Depth
Ground Surface											
0	230	86	No Odor	12	11	745	700	0	0	290	0
0.5	430	350	No Odor	234	180	922	1400	2194	0	580	0
1	250	NR	No Odor	39	19	81	360	65	0	680	4
1.5	200	NR	No Odor	25	82	237	85	0	0	380	3
2	NR	NR	No Odor	90	NR	NR	76	0	0	390	31
2.5	NR	NR	No Odor	NR	NR	NR	25	0	0	1400	87
3	NR	NR	No Odor	NR	NR	NR	42	0	396	NR	9
3.5	NR	NR	No Odor	NR	NR	NR	NR	0	5	NR	21
4	90	924	No Odor	150	9.9	112	93	0.3	0	160	44
4.5	73	946	No Odor	190	38	310	0	36	36	9999	62
5	78	480	No Odor	168	40	61	23	8.2	4	1030	24
5.5	76	1900	No Odor	382	153	161	18	0	0	182	1
6		270	No Odor	364	194	521	12.5	0	1	1262	8
6.5		548	No Odor	194	121	NR	14	0	52	1369	0
7		NR	No Odor	NR	NR	NR	240	59	0	83	1
7.5		NR	No Odor	NR	NR	NR	286	97	NR	26	0
8		402	No Odor	437	50	1103	3.6	0	0	1104	42
8.5		365	No Odor	570	75	360	173	0	42	292	4
9		270	No Odor	630	1080	4000	199	0	0	12	0
9.5		295	No Odor	205	330	9999	346	23	11	11	0
10		142	No Odor	131	48	9999	664	79	264	26	0
10.5		313	No Odor	120	125	400	24.2	446	1	1	0
11		30	No Odor	108	58	404	10.3	9999	0	0	0
11.5			No Odor	201	50	NR		7157			0
12			No Odor	55	440	555		113			
12.5			No Odor	61	637	40		81			
13			No Odor	75	215	22		428			
13.5			No Odor	105	218			495			
14			No Odor	77	60			293			
14.5			No Odor	86				11			
15			No Odor					41			
15.5			No Odor					70			
Impacted Soil Volume (cubic yards)											
	0	0	0	0	94	21	73	0	94	0	

Notes:

NR = No Recovery

SL = Slight

MOD = Moderate

STR = Strong

Impacted soil

Potentially impacted soil

Figure 8
Transect D Cell Profiles
Building 5 Area Supplemental Soil Investigation

Depth	P-4	I-19	P-5	I-18	I-17	I-16	D-36	P-8	D-37	Depth
<i>Ground Surface</i>										
0	180	0	60	3400	244	73		2200		0
0.5	87	0.1	47	9999	360	194	0	680	0	0.5
1	500	0.5	NR	9999	488	96	0	393	0	1
1.5	260	1.9	NR	4896	507	111		440		1.5
2	400	1.4	NR	9999	NR	296	0	NR	0	2
2.5	NR	0.8	NR	NR	NR	NR		NR		2.5
3	NR	NR	NR	NR	NR	NR		396		3
3.5	NR	NR	NR	NR	NR	NR		NR		3.5
4	75	0.3	NR	2170	1052	602	0	1228	0	4
4.5	1000	0.9	103	2100	359	423	0	900		4.5
5	550	2.6	772	819	828	308	0	320	0	5
5.5	1000	3.5	422	495	1429	988	0	300		5.5
6	100	3.7		989	1433	1267	0	441	0	6
6.5		4.4		1286	339	913	0	260		6.5
7		2		9999	NR	NR	11	243	0	7
7.5		2.3		9999	NR	NR	5			7.5
8		205		1	844	445	68		0	8
8.5		102		2.1	9999	199	4			8.5
9		83		2.2	9999	643	4		0	9
9.5		25		3.8	9999	200	70			9.5
10		27		NR	9999	95	392	264	0	10
10.5		29		NR	9999	164	348			10.5
11		20		2.5	450	120	0		0	11
11.5		33		2.5	177		0			11.5
12		60		2.5	940		0		0	12
12.5		88		2.5	1200					12.5
13		90		1	342					13
13.5		61		0.5	194					13.5
14		45		0.7	389					14
14.5		55		0.6	380					14.5
15					187					15
15.5					208					15.5
<i>Impacted Soil Volume (cubic yards)</i>										
	0	0	0	0	156	52	21	0	0	

Notes:

NR = No Recovery

SL = Slight

MOD = Moderate

STR = Strong

Impacted soil

Potentially impacted soil

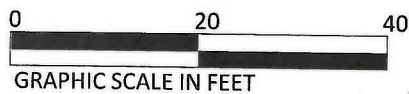
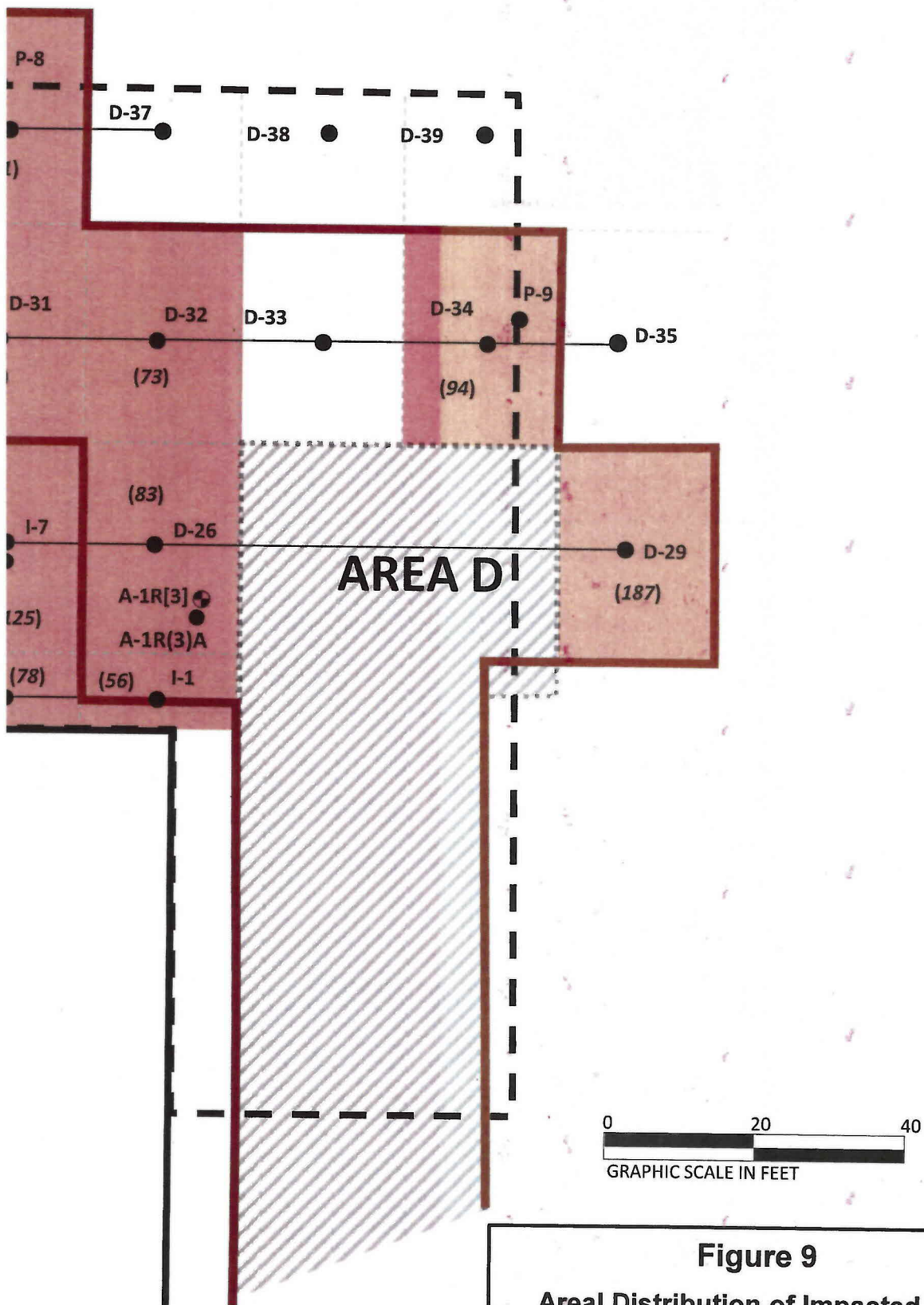
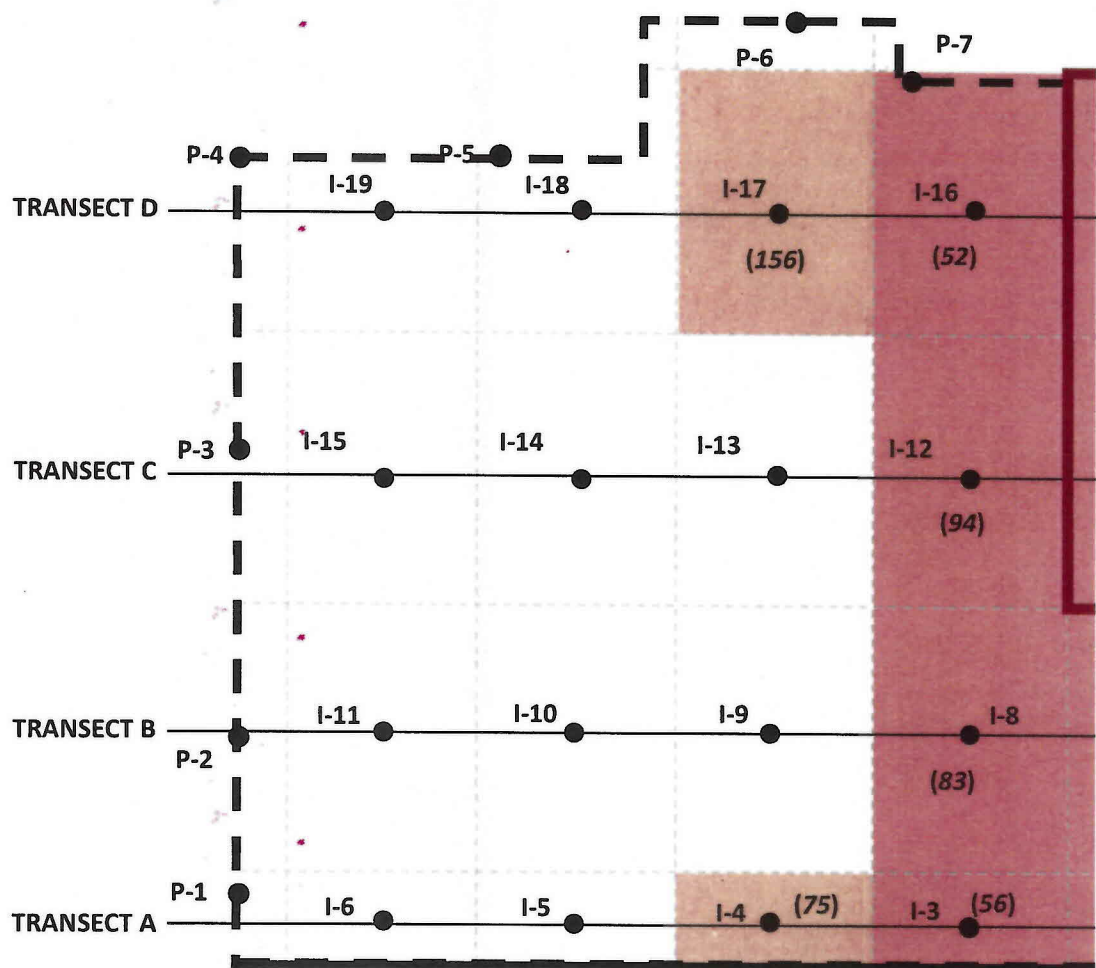


Figure 9
Areal Distribution of Impacted Soil

Bristol-Myers Squibb Manufacturing Company
Humacao, Puerto Rico


PREPARED BY: ANDERSON - MULHOLLAND & ASSOC, INC.

ibic yards)



EXISTING
BUILDING 5

LEGEND

-  PLANNED BUILDING 5 EXPANSION
- FOOTPRINT SOIL BORING
- PERIMETER SOIL BORING
- PRE-DESIGN SOIL BORING (2007)
- MONITORING WELL
- AREA D removal AREA
- ORIGINAL SCHEDULED AREA D REMOVAL
- CELL CONTAINING IMPACTED SOIL
- (156) ESTIMATED VOLUME OF IMPACTED SOIL

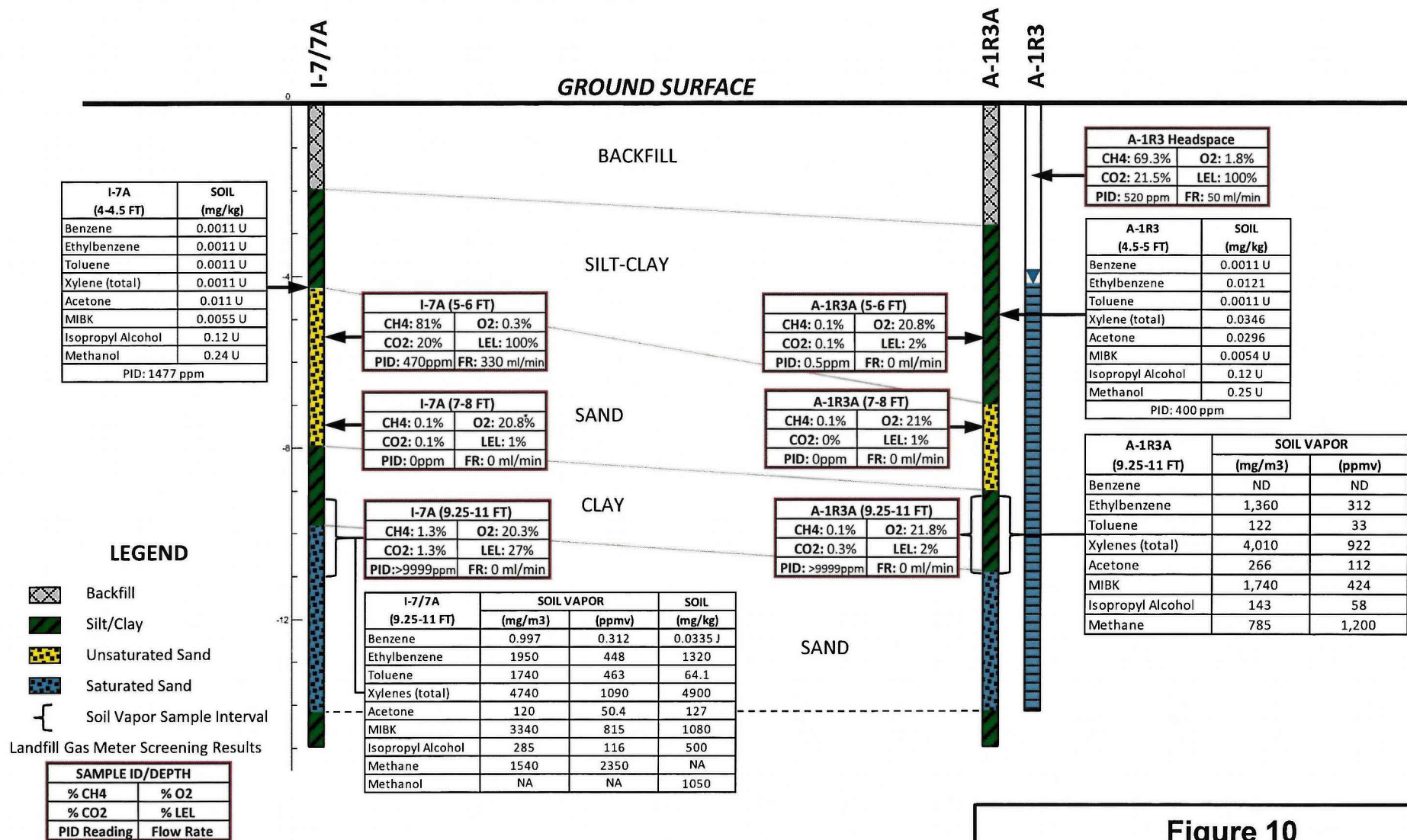


Figure 10
Soil Vapor Sampling Results

Bristol-Myers Squibb Manufacturing Company
Humacao, Puerto Rico

PREPARED BY: ANDERSON - MULHOLLAND & ASSOC, INC.

Appendix A

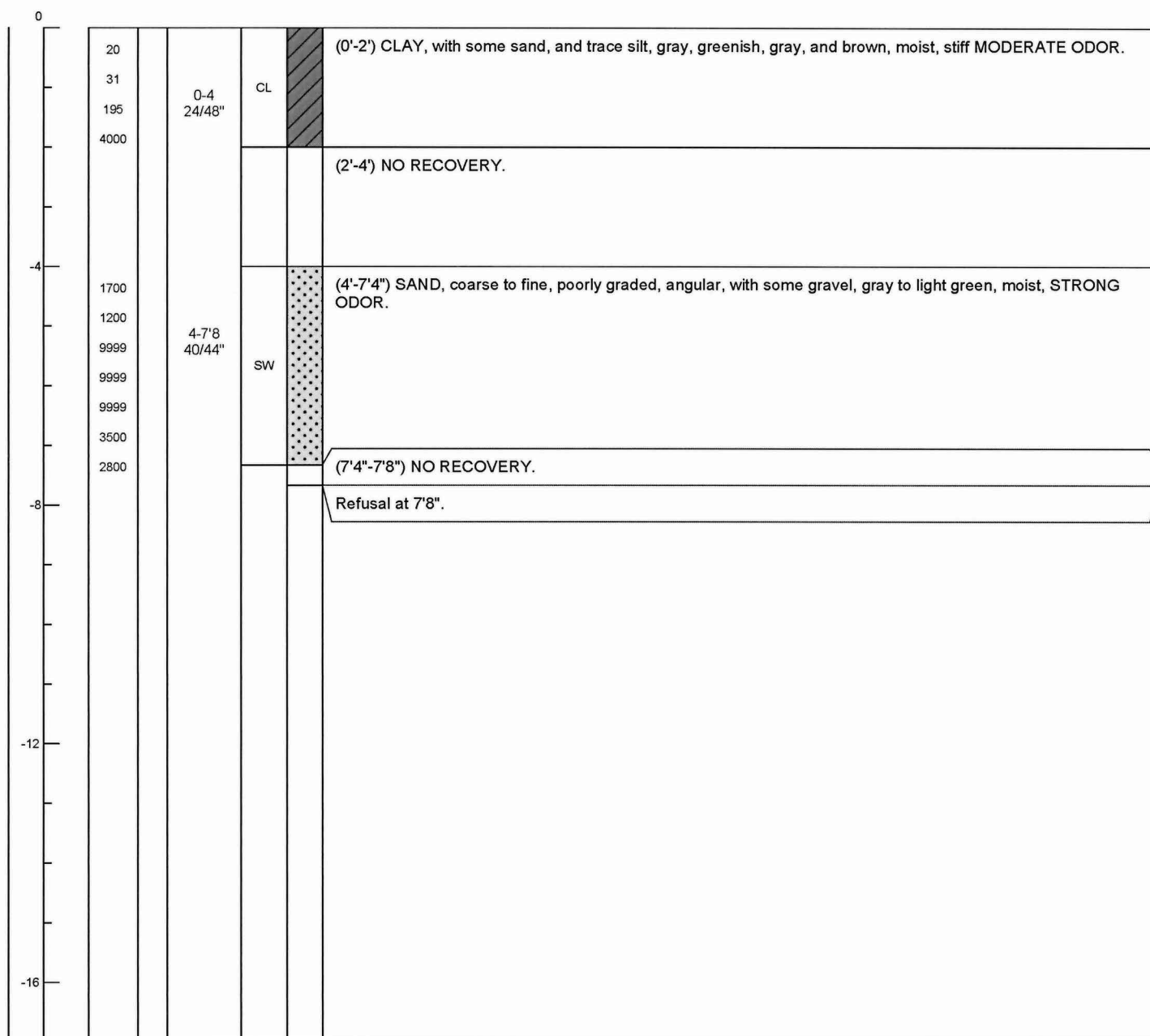
Building 5 Area Supplemental Soil Investigation Boring Logs

Pg. 1 of 1Date Completed: 12/06/11Date Started: 12/06/11

Logged by: **T. Taylor/N. Rivera**

Reviewed by: T. Taylor

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION



914-251-0400

40 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

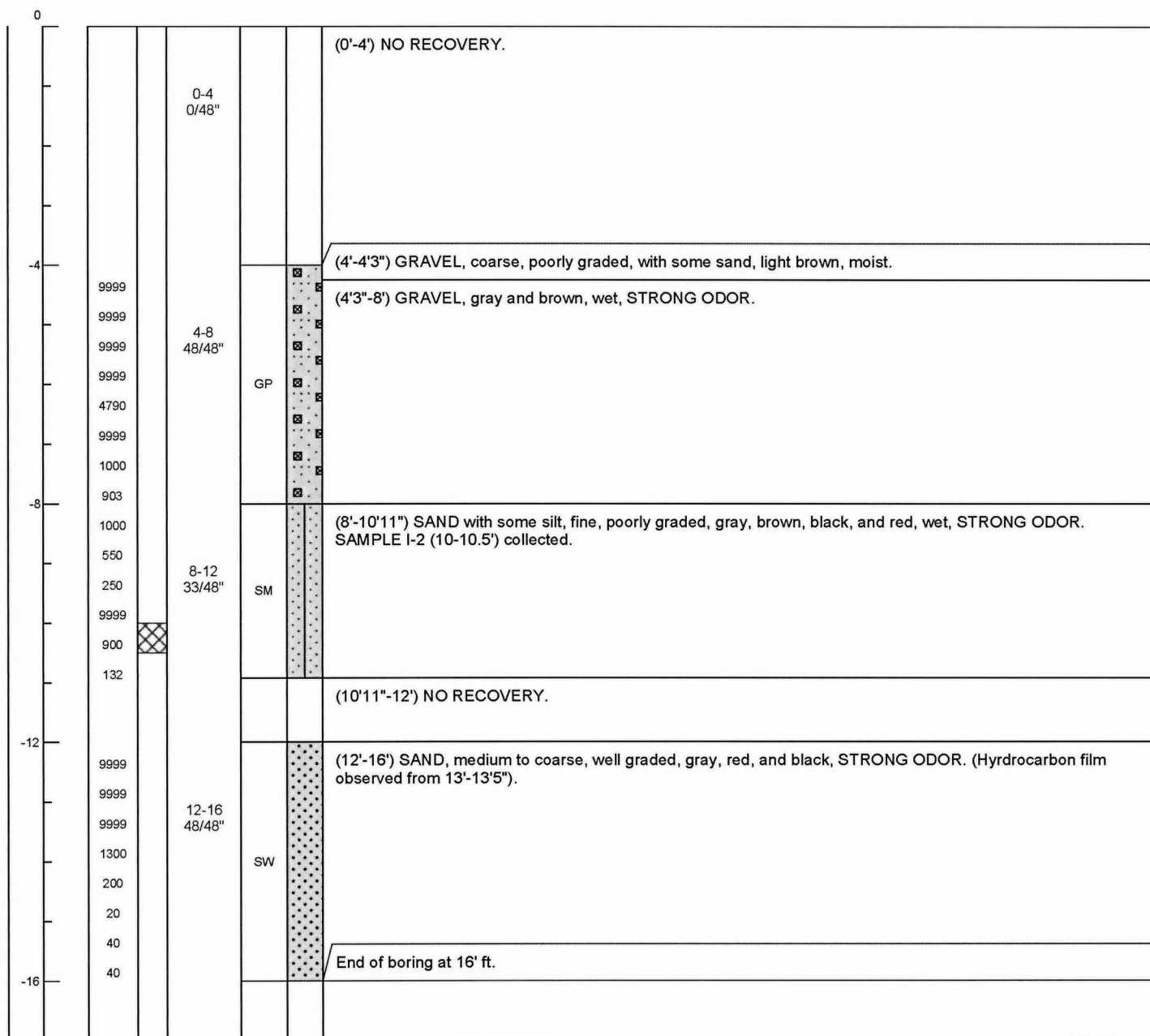
Water Level: N/A ft btc

Project: **BMS- Building 5 Area**Well: **I-2**

Pg.1 of 1

Location: **Humacao, PR**Drilling Co: **GeoEnviroTech**Date Completed: **12/06/11**Drilling Method: **Direct Push**Date Started: **12/06/11**Meas Pt/ Elev (ft amsl): **N/A**Sampler / Drop: **4' by 2" Macrocore**Logged by: **T. Taylor/N. Rivera**Ground Elev (ft amsl): **N/A**Borehole Dia: **3.25"**Reviewed by: **T. Taylor**

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------

**ANDERSON MULHOLLAND & ASSOCIATES, INC.**

Environmental Consultants

110 Corporate Park Drive

White Plains, NY 10604

914-251-0400

Notes:

10 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

Project: **BMS- Building 5 Area**Well: **I-3**

Pg.1 of 1

Location: **Humacao, PR**Drilling Co: **GeoEnviroTech**Date Completed: **12/06/11**Drilling Method: **Direct Push**Date Started: **12/06/11**Meas Pt/ Elev (ft amsl): **N/A**Sampler / Drop: **4' by 2" Macrocore**Logged by: **T. Taylor/N. Rivera**Ground Elev (ft amsl): **N/A**Borehole Dia: **3.25"**Reviewed by: **T. Taylor**

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------

0						(0-1'7") CLAY, with some sand, and trace silt , light green and brown, wet. (wood fragments observed at base of sample).
66			0-4	CH		
94			19/48"			(1'7"-4) NO RECOVERY.
-4						
80				CH		(4'-5') CLAY, with some sand, few silt, and trace gravel, wet.
155			4-8			(5'-5'4") CLAY, with some gravel, few sand, and trace silt, wet. SAMPLE I-3 (5-6') collected.
1700			44/48"	GP		(5'4"-6'1") GRAVEL, with some sand, gray and brown, HIGH ODOR.
4500						
700				CL		(6'1"-7'10") CLAY, with some sand, and few silt, with trace gravel at bottom 2", brownish gray, moist, HIGH ODOR.
105						(7'10"-8') NO RECOVERY.
671						(8'-12')NO RECOVERY.
			8-12			
			0/48"			
						(12'-12'5") NO RECOVERY.
-12						End of Boring 12.5 ft.
			12-12.5			
			0/6"			
-16						

ANDERSON MULHOLLAND & ASSOCIATES, INC.

Environmental Consultants

110 Corporate Park Drive

White Plains, NY 10604

914-251-0400

Notes:

0 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

Project: BMS- Building 5 AreaWell: **I-4**

Pg.1 of 1

Location: **Humacao, PR**Drilling Co: **GeoEnviroTech**Date Completed: **12/06/11**Drilling Method: **Direct Push**Date Started: **12/06/11**Meas Pt/ Elev (ft amsl): **N/A**Sampler / Drop: **4' by 2" Macrocore**Logged by: **T. Taylor/N. Rivera**Ground Elev (ft amsl): **N/A**Borehole Dia: **3.25"**Reviewed by: **T. Taylor**

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
0						
7000						
9999			0-4 28/48"	GM		(4"-11") GRAVEL, coarse, poorly graded, with some sand, few silt, and trace clay, dark gray to dark green.
9999				CL		(11"-1'6") CLAY, with some sand, few silt, and trace gravel gray to green.
9999						(1'6"-2'6") CLAY, with some sand and trace silt, gray to reddish brown, moist, soft, STRONG ODOR.
9999				GP		(2'6"-2'8") GRAVEL, angular.
						(2'8"-4') NO RECOVERY.
3000			4-8 35/48"	GP		(4'-5'4") GRAVEL, with some sand, gray to light brown, dry. SAMPLE I-4 (5-6') collected and I-4 (5-6') dup collected.
4000				CL		(5'4"-6'4") CLAY, with some sand and trace silt, brown, gray, and red, moist, MODERATE ODOR.
9999				ML		(6'4"-6'10") SILT, with some gravel and trace sand, brown to gray.
1500						(6'10"-8') NO RECOVERY.
200				CL		(8'-9'11") CLAY, with some sand, and trace silt, gray with red veins to brown, hard, moist, MODERATE ODOR.
340			8-12 31/48"	CL		
860				SW		(9'11"-10'4") SAND, medium to coarse, well graded, NO ODOR.
670						(10'4"-12') NO RECOVERY.
536						End of Boring 12 ft.
75						
-12						
-16						

ANDERSON MULHOLLAND & ASSOCIATES, INC.

Environmental Consultants
110 Corporate Park Drive
White Plains, NY 10604
914-251-0400

Notes:

193 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

Location: Humacao, PRDrilling Co: GeoEnviroTech

Date Completed: 12/06/11

Drilling Method: Direct Push

Date Started: 12/06/11

Meas Pt/ Elev (ft amsl): N/A

Sampler / Drop: 4' by 2" Macrocore

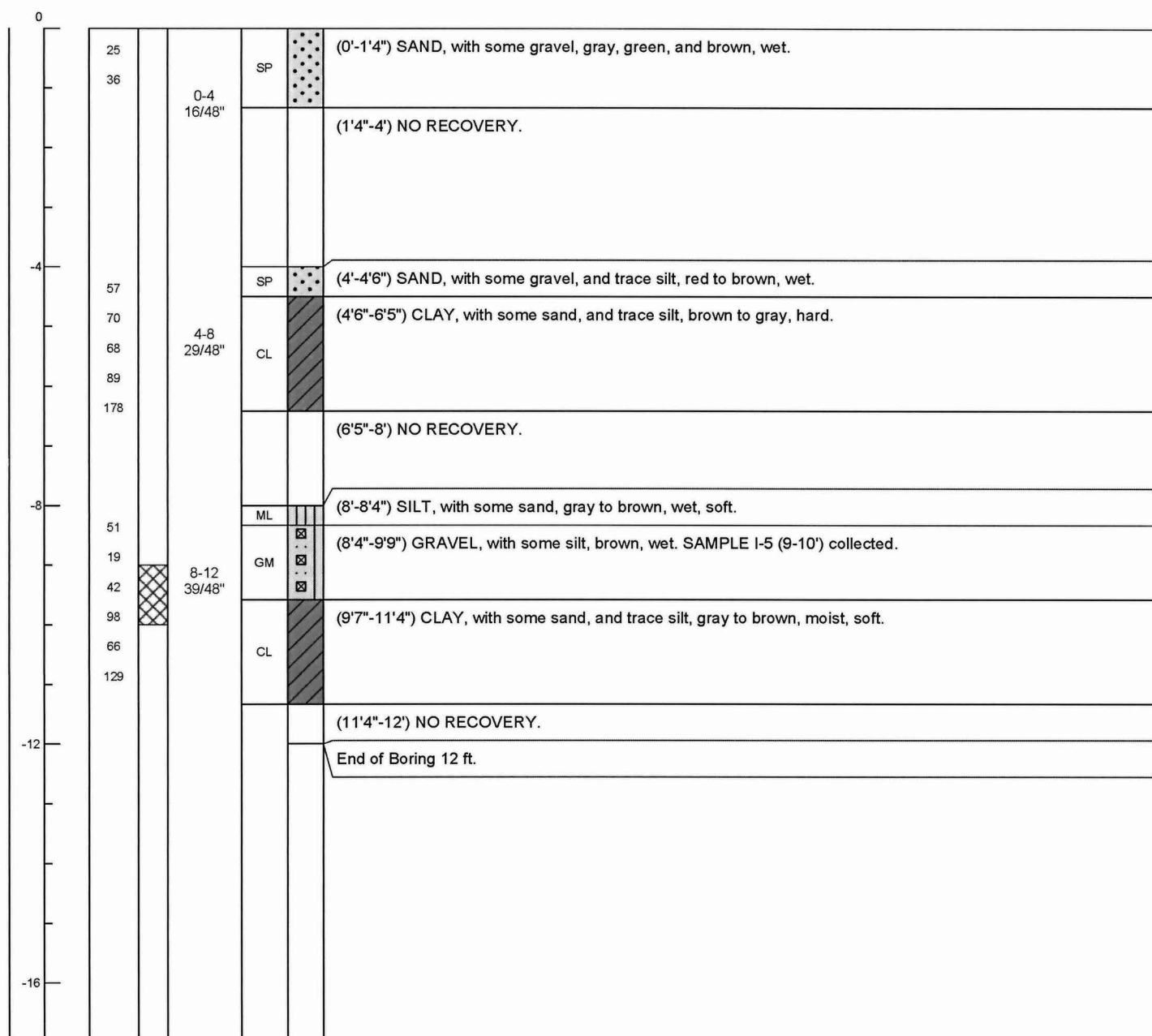
Logged by: T. Taylor/N. Rivera

Ground Elev (ft amsl): N/A

Borehole Dia: 3.25"

Reviewed by: T. Taylor

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION



ANDERSON MULHOLLAND & ASSOCIATES, INC.

Environmental Consultants

110 Corporate Park Drive

White Plains, NY 10604

914-251-0400

Notes:

600 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

Project: BMS- Building 5 AreaWell: **I-6**

Pg.1 of 1

Location: **Humacao, PR**Drilling Co: **GeoEnviroTech**Date Completed: **12/06/11**Drilling Method: **Direct Push**Date Started: **12/06/11**Meas Pt/ Elev (ft amsl): **N/A**Sampler / Drop: **4' by 2" Macrocore**Logged by: **T. Taylor/N. Rivera**Ground Elev (ft amsl): **N/A**Borehole Dia: **3.25"**Reviewed by: **T. Taylor**

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------

0						
200				SP		(0"-11") SAND, medium, poorly graded, with some gravel, rust brown, dry, NO ODOR.
438						
127			0-4 26/48"	SM		(11"-2'2") SAND, fine, poorly graded, with some silt, and trace gravel, green, moist, NO ODOR.
360						(2'2"-4') NO RECOVERY.
129						
240			4-8 37/48"	SM		(4'-5'1") SAND, fine, poorly graded, with some silt, and trace gravel, green, moist, NO ODOR. (May be slough from above).
450						(5'1"-7'1") SAND, fine, poorly graded, with some silt, and trace clay, brown to gray, NO ODOR.
428						
160						
300						(7'1"-8') NO RECOVERY.
1380						(8'-8'6") SAND, fine, poorly graded, with some silt, and trace clay, brown to gray, SLIGHT ODOR.
911			8-12 31/48"	SM		(8'6"-10'3") SAND, fine to medium, well graded, with some silt, green, brown, and trace pink, SLIGHT ODOR. SAMPLE I-6 (8.5-9.5') collected.
995						
420						(10'3"-10'7") SAND, fine, poorly graded, with some silt, gray, moist, NO ODOR.
18						(10'7"-12') NO RECOVERY.
				SM		(12'-12'2") SAND, fine, poorly graded, with some silt, gray, moist, NO ODOR.
590				SW		(12'2"-12'10") SAND, fine to medium, well graded, gray to green, wet, MODERATE ODOR.
40						
310			12-16 27/48"	ML		(12'10"-13'6") SILT, with some clay, dark brown, medium, SLIGHT ODOR.
0				SM		(13'6"-13'10) SAND, fine, poorly graded, with some silt, gray, moist, NO ODOR.
				ML		(13'10"-14'3") SILT, with some clay, gray, soft, NO ODOR.
						(14'3"-16") NO RECOVERY.
						End of Boring at 16 ft.
-16						

ANDERSON MULHOLLAND & ASSOCIATES, INC.

Environmental Consultants
110 Corporate Park Drive
White Plains, NY 10604
914-251-0400

Notes:

1 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

Project: **BMS- Building 5 Area**Well: **I-7**

Pg.1 of 1

Location: **Humacao, PR**Drilling Co: **GeoEnviroTech**Date Completed: **12/06/11**Drilling Method: **Direct Push**Date Started: **12/06/11**Meas Pt/ Elev (ft amsl): **N/A**Sampler / Drop: **4' by 2" Macrocore**Logged by: **T. Taylor/N. Rivera**Ground Elev (ft amsl): **N/A**Borehole Dia: **3.25"**Reviewed by: **T. Taylor**

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------

0						
9						(0'-1'6") Backfill, soil mixed with rock fragments, gravel fragments of concrete.
4						
15			0-4 38/48"			
11				ML		(1'6"-2') SILT, with some sand, and trace gravel, brown to green.
18				CH		(2'-3'2") CLAY, with some sand, and trace silt, brown, gray, and dark gray, wet, soft, NO ODOR.
36						(3'2"-4') NO RECOVERY.
-4						
50				SP		(4'-4'11") SAND, with some gravel, and trace clay, brown to gray, moist.
21						
38			4-8 36/48"	GP		(4'11"-5'7") GRAVEL, angular, with some sand, brown, dry, NO ODOR.
66				SP		(5'7"-5'10") SAND, coarse, poorly graded, green, moist.
20				SM		(5'10"-7') SAND, with some silt, brown to black, MODERATE ODOR.
70						(7'-8') NO RECOVERY.
-8						
41				CL		(8'-9'10") CLAY, with some sand, few silt, and trace gravel brown, yellowish brown, dark gray, and gray.
244			8-12 40/48"			
1030						
995						
9999				SW		(9'10"-11'4") SAND, medium to coarse, well graded, gray, red, brown, dark gray, wet, STRONG ODOR. SAMPLE I-7 (10-11') collected.
9999						
2300						(11'4"-12') NO RECOVERY.
-12				SW		(12'-12'6") SAND, medium to coarse, well graded, gray, wet, STRONG ODOR.
						End of Boring 12.5 ft.
-16						

ANDERSON MULHOLLAND & ASSOCIATES, INC.

Environmental Consultants

110 Corporate Park Drive

White Plains, NY 10604

914-251-0400

Notes:

4 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

Project: <u>BMS- Building 5 Area</u>		Well: <u>I-8</u>		Pg.1 of 1	
Location: <u>Humacao, PR</u>		Drilling Co: <u>GeoEnviroTech</u>	Date Completed: <u>12/07/11</u>		
Meas Pt/ Elev (ft amsl): <u>N/A</u>		Drilling Method: <u>Direct Push</u>	Date Started: <u>12/07/11</u>		
Ground Elev (ft amsl): <u>N/A</u>		Sampler / Drop: <u>4' by 2" Macrocore</u>	Logged by: <u>T. Taylor/N. Rivera</u>		
		Borehole Dia: <u>3.25"</u>	Reviewed by: <u>T. Taylor</u>		

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------

0						
91				GM		(0"-1') GRAVEL, with some silt, and trace sand.
354			0-4	CL		(1'-1'5")CLAY, with some sand, few gravel, and trace silt, brown to greenish gray, moist, stiff, NO ODOR.
484			21/48"	SM		(1'5"-1'9") SAND, with some silt, and trace clay, brown, moist, NO ODOR.
						(1'9"-4') NO RECOVERY.
-4				SM		(4'-4'6") SAND, with some silt, and trace clay, brown, moist, NO ODOR.
140			4-8	ML		(4'6"-6'8") SILT, with some clay, and trace sand, black, brown, and gray, very stiff, NO ODOR.
140			32/48"			(6'8"-8') NO RECOVERY.
578						
240						
528						
-8						
824			8-12	CL		(8'-9'9") CLAY, with some sand, and trace silt, gray to brown, moist, very stiff, SLIGHT ODOR.
636			32/48"	SW		(9'9"-10'8") SAND, medium to coarse, well graded, gray and violet, wet, MODERATE ODOR.
738						(10'8"-12') NO RECOVERY.
770						
1247						
-12						
9999			12-16	SW		(12'-13'7") SAND, medium to coarse, well graded, gray, wet, MODERATE ODOR.
9999			45/48"			(13'7"-14'1") Wood fragments.
9999				SW		(14'1"-15'1") SAND, medium to coarse, well graded, gray and red, wet, MODERATE ODOR. SAMPLE I-8 (14-15') collected.
2000				CL		(15'1"-15'8") CLAY, with some silt, and trace sand, gray to brown, very stiff, SLIGHT ODOR.
9999						(15'8"-16') NO RECOVERY.
9999						End of Boring at 16 ft.
1340						
-16						

ANDERSON MULHOLLAND & ASSOCIATES, INC. Environmental Consultants 110 Corporate Park Drive White Plains, NY 10604 914-251-0400	Notes: 10 ppm in corehole prior to sampling
	Water Level ATD: N/A ft bgl Water Level: N/A ft btc

Pg.1 of 1

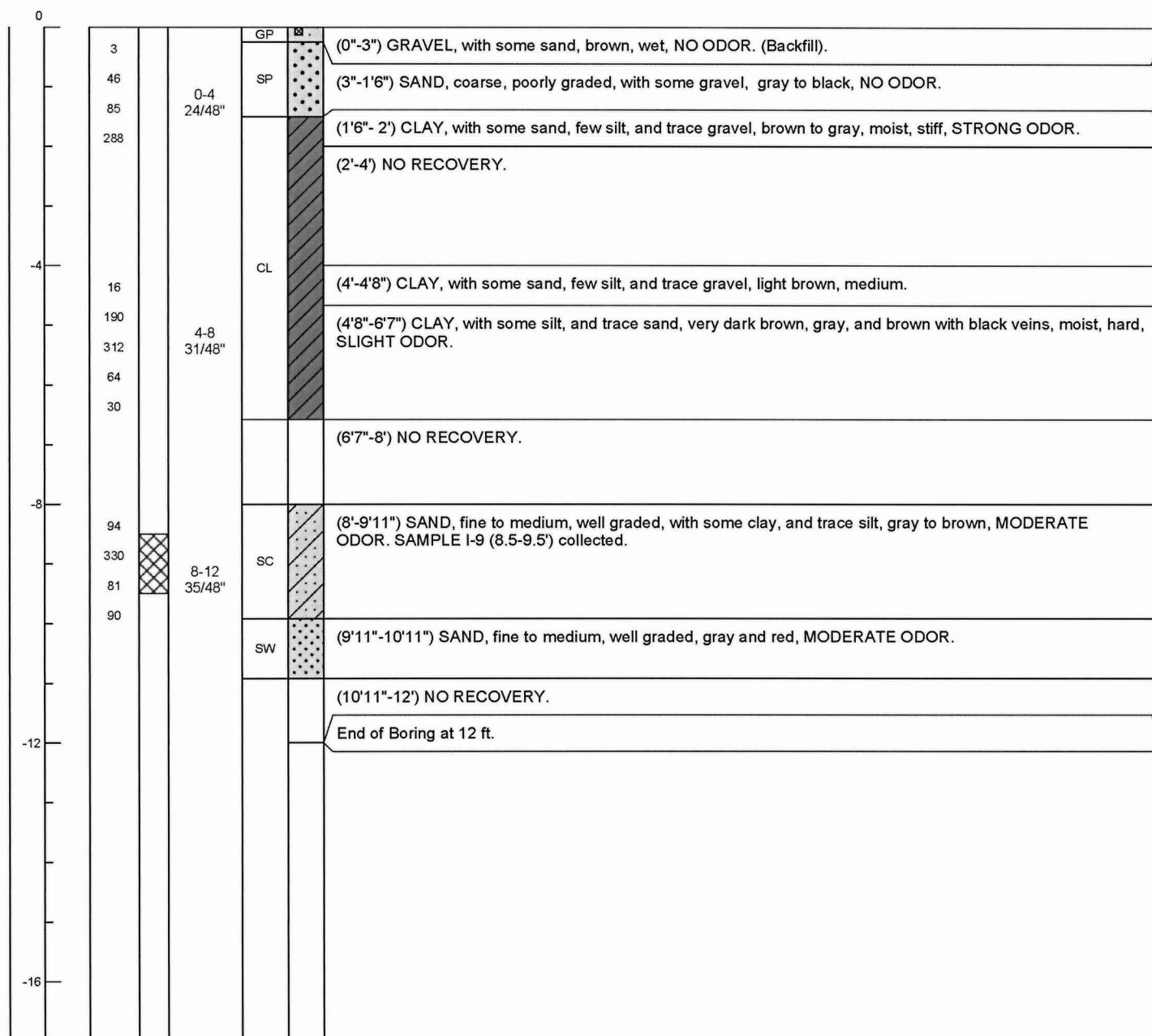
Date Completed: 12/07/11

Date Started: 12/07/11

Logged by: T. Taylor/N. Rivera

Reviewed by: T. Taylor

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION



914-251-0400

17 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

Project: **BMS- Building 5 Area**Well: **I-10**

Pg.1 of 1

Location: **Humacao, PR**Drilling Co: **GeoEnviroTech**Date Completed: **12/08/11**Drilling Method: **Direct Push**Date Started: **12/08/11**Meas Pt/ Elev (ft amsl): **N/A**Sampler / Drop: **4' by 2" Macrocore**Logged by: **T. Taylor/N. Rivera**Ground Elev (ft amsl): **N/A**Borehole Dia: **3.25"**Reviewed by: **T. Taylor**

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------

**ANDERSON MULHOLLAND & ASSOCIATES, INC.**

Environmental Consultants

110 Corporate Park Drive

White Plains, NY 10604

914-251-0400

Notes:

No PID in concrete prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

Project: <u>BMS- Building 5 Area</u>		Well: <u>I-12</u>		Pg. <u>1</u> of <u>1</u>	
Location: <u>Humacao, PR</u>		Drilling Co: <u>GeoEnviroTech</u>	Date Completed: <u>12/07/11</u>		
Meas Pt/ Elev (ft amsl): <u>N/A</u>		Drilling Method: <u>Direct Push</u>	Date Started: <u>12/07/11</u>		
Ground Elev (ft amsl): <u>N/A</u>		Sampler / Drop: <u>4' by 2" Macrocore</u>	Logged by: <u>T. Taylor/N. Rivera</u>		
		Borehole Dia: <u>3.25"</u>	Reviewed by: <u>T. Taylor</u>		

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------

0						
745			0-4 26/48"	ML		(0'-2'2") SILT, with some clay, and trace gravel, brown to gray, dry, stiff, MODERATE ODOR.
922						
81						
237						(2'2"-4') NO RECOVERY.
-4						
112				ML		(4'-4'10")SILT, with some clay, and trace gravel, brown to gray, dry, stiff, NO ODOR.
310			4-8 27/48"			
61				CL		(4'10"-6'2") CLAY, with trace gravel, brown to mottled, dry, stiff, NO ODOR.
161						
521				SM		(6'2"-6'3") SAND, fine, poorly graded, with some silt, gray, moist, MODERATE ODOR.
						(6'3"-8') NO RECOVERY.
-8						
1103				CL		(8'-9') CLAY, with some sand, gray, brown, and black, moist, medium, SLIGHT ODOR.
360			8-12 41/48"			
4000						(9'-9'6") SAND, medium to coarse, well graded, with some gravel, gray, red, and green, wet, STRONG ODOR.
9999				SW		(9'6"-11'5") SAND, medium to coarse, well graded, gray, red and green, wet, STRONG ODOR. SAMPLE I-12 (9.5-10.5') collected.
9999						
400						
404						
-12						(11'5"-12') NO RECOVERY.
555						
40				SW		(12'-13'7") SAND, medium to coarse, well graded, gray and red, wet, MODERATE ODOR.
22			12-16 19/48"			
						(13'7"-14'6") NO RECOVERY.
						End of Boring at 14.5 ft.
-16						

ANDERSON MULHOLLAND & ASSOCIATES, INC. Environmental Consultants 110 Corporate Park Drive White Plains, NY 10604 914-251-0400	Notes: 19 ppm in corehole prior to sampling	
	Water Level ATD: N/A ft bgl	Water Level: N/A ft btc

Project: BMS- Building 5 AreaWell: **I-13**

Pg.1 of 1

Location: **Humacao, PR**Drilling Co: **GeoEnviroTech**Date Completed: **12/07/11**Drilling Method: **Direct Push**Date Started: **12/07/11**Meas Pt/ Elev (ft amsl): **N/A**Sampler / Drop: **4' by 2" Macrocore**Logged by: **T. Taylor/N. Rivera**Ground Elev (ft amsl): **N/A**Borehole Dia: **3.25"**Reviewed by: **T. Taylor**

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
0						
11				ML		(0'-1'7") SILT, with some gravel, and few sand, gray, moist. Backfill.
180						
19			0-4 27/48"	CL		(1'7"-2'3") CLAY, with some sand, and trace silt, gray and black patches, moist, brown, NO ODOR.
82						(2'3"-4') NO RECOVERY.
-4				CL		(4'-4'6") CLAY, with some sand, and trace silt, gray to brown, moist, soft, SLIGHT ODOR.
9.9						
38			4-8 36/48"			(4'6"-5'2") CLAY, with some gravel, few sand, and trace silt, light brown, moist, soft, SLIGHT ODOR.
40						
153				CL		(5'2"-6") CLAY, with some sand, brown, gray, and black, SLIGHT ODOR.
194						(6'-6'6") CLAY, with some sand, black, gray, and brown, moist, soft, SLIGHT ODOR.
121						(6'6"-7'8") CLAY, with some silt, and trace sand, brown, gray, and black, moist, hard, NO ODOR.
-8				SW		(7'8"-12') SAND, medium to coarse, well graded, gray to red, wet, MODERATE ODOR.
50						
75			8-12 48/48"			
1080						
330						
48						
125						
58						
50						
-12						(12'-12'9") SAND, medium to coarse, well graded, wet. SAMPLE I-13 (12.5-13.5') collected.
440						
637				CL		(12'9"-13'4") CLAY, with some sand, and trace silt, gray to red, moist, NO ODOR.
215			12-16 29/48"			(13'4"-14'9") CLAY, with some silt, and trace sand, moist, medium, SLIGHT ODOR.
218						
60						(14'9"-16') NO RECOVERY.
						End of Boring at 16 ft.
-16						

ANDERSON MULHOLLAND & ASSOCIATES, INC.

Environmental Consultants
110 Corporate Park Drive
White Plains, NY 10604
914-251-0400

Notes:

47 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

Project: **BMS- Building 5 Area**Well: **I-14**

Pg. 1 of 1

Location: **Humacao, PR**Drilling Co: **GeoEnviroTech**Date Completed: **12/07/11**Drilling Method: **Direct Push**Date Started: **12/07/11**Meas Pt/ Elev (ft amsl): **N/A**Sampler / Drop: **4' by 2" Macrocore**Logged by: **T. Taylor/N. Rivera**Ground Elev (ft amsl): **N/A**Borehole Dia: **3.25"**Reviewed by: **T. Taylor**

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------

0	12			GP		(0'-1'1") GRAVEL, with some sand, and trace silt, gray, wet, NO ODOR.
	234					
	39	0-4 27/48"		CL		(1'1"-2'3") CLAY, with some sand, and trace silt, brown, light brown, and gray, moist, NO ODOR.
	25					(2'3"-4') NO RECOVERY.
-4	150					(4'-4'7") CLAY, with some sand, and trace silt, dark brown to gray, moist, stiff.
	190	4-8 34/48"		CL		(4'7"-6'10") CLAY, with some sand, and trace silt, brown, gray, dark brown, and violet, moist, hard, SLIGHT ODOR.
	168					
	382					(6'10"-8') NO RECOVERY.
	437					
	570	8-12 48/48"		CL		(8'-10'7") CLAY, with some gravel, and trace silt, brown, dark brown, and gray, moist, stiff, NO ODOR. SAMPLE I-14 (8.5-9.5') collected.
	630					
	205					
	131					
	120					(10'7"-12') SAND, medium to coarse, well graded, brown, gray, and red, wet, NO ODOR.
	108					
-12	201			SW		(12'-14'2") SAND, medium to coarse, well graded, gray to brown, wet, MODERATE ODOR.
	55					
	61	12-16 39/48"				
	75					
	105					
	77			CL		(14'2"-15'3") CLAY, with some sand, and trace silt, gray, dark brown, and brown, NO ODOR.
	86					(15'3"-16') NO RECOVERY.
						End of Boring at 16 ft.
-16						

ANDERSON MULHOLLAND & ASSOCIATES, INC.

Environmental Consultants

110 Corporate Park Drive

White Plains, NY 10604

914-251-0400

Notes:

375 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

Location: Humacao, PR

Drilling Co: GeoEnviroTechDate Completed: 12/07/11Drilling Method: Direct PushDate Started: 12/07/11Meas Pt/ Elev (ft amsl): N/A

Sampler / Drop: 4' by 2" Macrocore

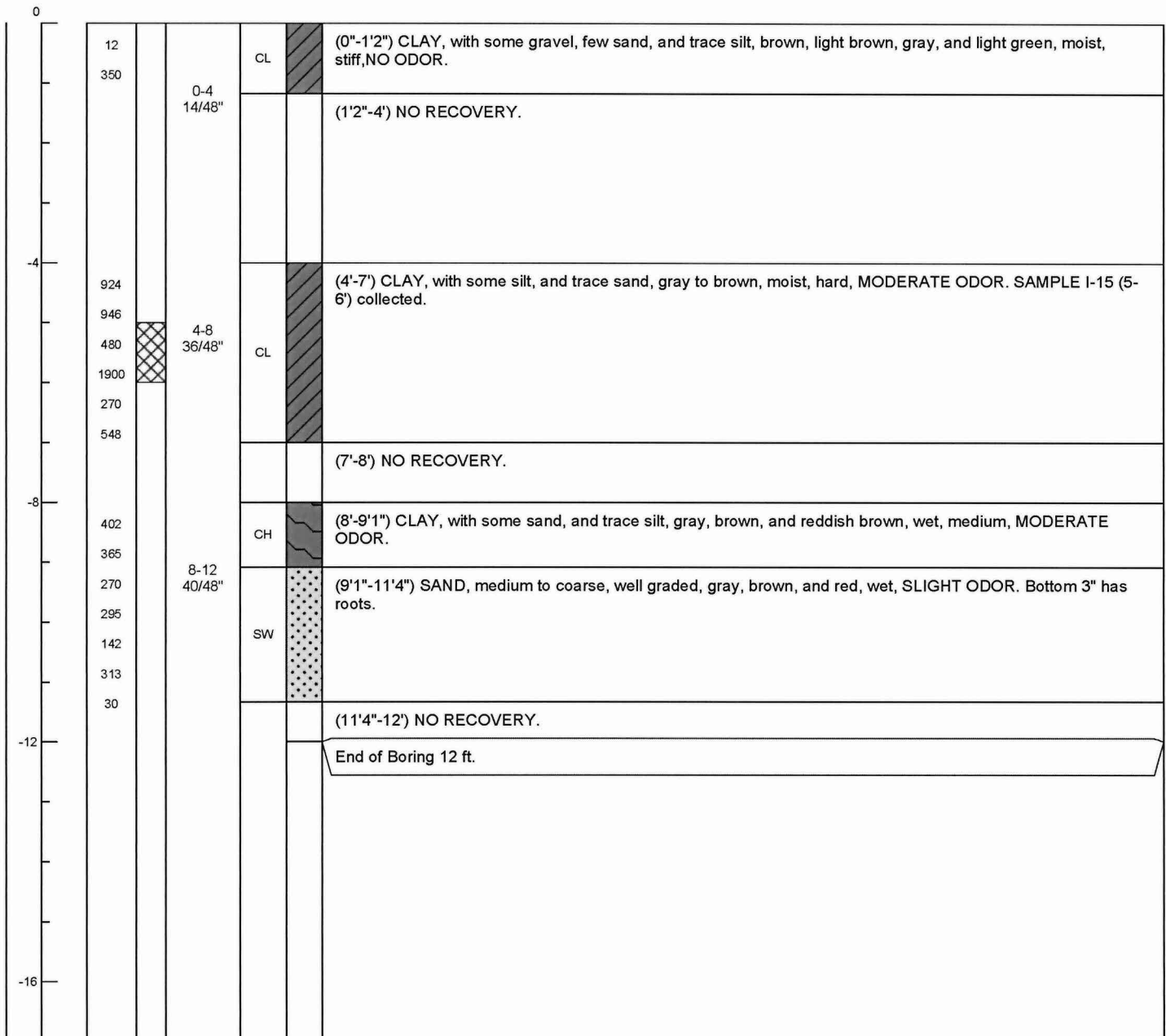
Logged by: T. Taylor/N. Rivera

Ground Elev (ft amsl): N/A

Borehole Dia: 3.25"

Reviewed by: T. Taylor

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION



ANDERSON MULHOLLAND & ASSOCIATES, INC.

Environmental Consultants
110 Corporate Park Drive
White Plains, NY 10604
914-251-0400

Notes:

327 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

Pg. 1 of 1

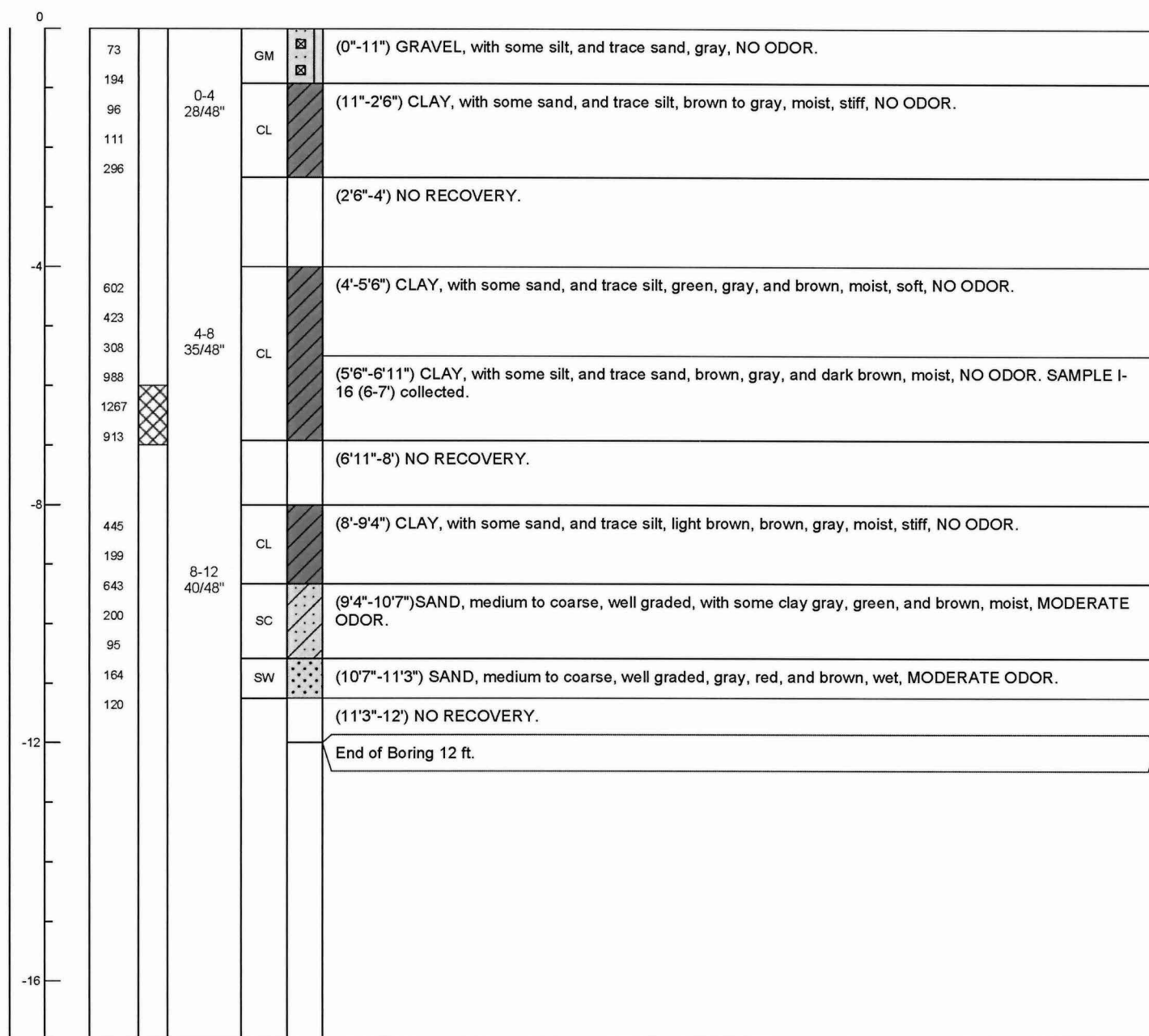
Date Completed: 12/07/11

Date Started: 12/07/11

Logged by: T. Taylor/N. Rivera

Reviewed by: T. Taylor

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION



914-251-0400

247 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

Project: BMS- Building 5 AreaWell: **I-17**

Pg.1 of 1

Location: **Humacao, PR**Drilling Co: **GeoEnviroTech**Date Completed: **12/08/11**Drilling Method: **Direct Push**Date Started: **12/08/11**Meas Pt/ Elev (ft amsl): **N/A**Sampler / Drop: **4' by 2" Macrocore**Logged by: **T. Taylor/N. Rivera**Ground Elev (ft amsl): **N/A**Borehole Dia: **3.25"**Reviewed by: **T. Taylor**

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------

0						
240				CH		(0'-1') CLAY, with some gravel, few sand, and trace silt, brown, wet, soft, NO ODOR.
360			0-4 25/48"			
488				CL		(1'-2'1") CLAY, with some sand, and trace silt gray, brown, and violet, moist, soft, NO ODOR.
507						(2'1"-4') NO RECOVERY.
						(4'-4'6") CLAY, with some sand, few silt, and trace gravel, gray, brown, and reddish brown, wet, soft, NO ODOR.
1057						
3359			4-8 33/48"	CL		(4'6"-6'9") CLAY, with some sand, and trace silt, gray, brown, dark brown, and light green, moist, very stiff, STRONG ODOR.
828						
1429						(6'9"-8') NO RECOVERY.
844				SC		(8'-9'2") SAND, medium to coarse, well graded, with some clay, gray, brown, and black, wet, STRONG ODOR.
9999			8-12 48/48"			
9999						(9'2"-11'10") SAND, medium to coarse, well graded, wet, STRONG ODOR. (Hydrocarbon film observed). SAMPLE I-17 (10'-11') collected.
9999						
9999						
9999						
450				SW		
177						
940						(12'-14') SAND, medium to coarse, well graded, gray to brown, wet, SLIGHT ODOR.
1200						
342			12-16 48/48"			
194						
389						(14'-16') CLAY, with some sand, and trace silt, dark brown, gray, and brown, wet, soft, SLIGHT ODOR.
380				CL		
187						
208						End of Boring 16 ft.
-16						

ANDERSON MULHOLLAND & ASSOCIATES, INC.

Environmental Consultants

110 Corporate Park Drive

White Plains, NY 10604

914-251-0400

Notes:

0 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl








Water Level: N/A ft btc

Project: BMS- Building 5 AreaWell: **I-18**

Pg.1 of 1

Location: **Humacao, PR**Drilling Co: **GeoEnviroTech**Date Completed: **12/08/11**Drilling Method: **Direct Push**Date Started: **12/08/11**Meas Pt/ Elev (ft amsl): **N/A**Sampler / Drop: **4' by 2" Macrocore**Logged by: **T. Taylor/N. Rivera**Ground Elev (ft amsl): **N/A**Borehole Dia: **3.25"**Reviewed by: **T. Taylor**

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------

0				GP		(0"-5") GRAVEL, light gray, wet.
3400						
9999			0-4 27/48"	CL		(5"-1'2") CLAY, with some gravel, few sand, and trace silt, gray, brown, and light green, moist, NO ODOR.
9999						
4895						
9999						(1'2"-2'4") CLAY, with some sand, and trace silt, brown, gray, and reddish brown, moist, stiff, NO ODOR.
						(2'4"-4') NO RECOVERY.
-4						
2170			4-8 45/48"	CL		(4'5"-5'4.5") CLAY, with some sand, few silt, and trace gravel, brown, gray, and violet, moist, medium, NO ODOR.
2100						
819						
495						
989						
1286						
9999						
9999						
						(7'9"-8') NO RECOVERY.
-8						
1				CL		(8'-8'6") CLAY, with some sand, and trace silt, brown, gray, and black, wet, soft, SLIGHT ODOR.
2.1			8-12 25/48"	CH		(8'6"-9'2") CLAY, with some sand, and trace silt, brown, gray, and black, moist, soft, SLIGHT ODOR.
2.2				SW		(9'2"-10'2") SAND, medium to coarse, well graded, gray to reddish brown, moist SLIGHT ODOR.
3.8						
						(10'2"-12') NO RECOVERY.
-12						
7.5			12-16 48/48"	SW		(12'-15'10") SAND, medium to coarse, well graded, gray to reddish brown, wet, SLIGHT ODOR.
2.5						
2.5						
2.5						
1						
0.5						
0.7						
-16						
0.6						End of Boring at 16 ft.

ANDERSON MULHOLLAND & ASSOCIATES, INC.

Environmental Consultants

110 Corporate Park Drive

White Plains, NY 10604

914-251-0400

Notes:

93 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

Project: **BMS- Building 5 Area**Well: **L-19**

Pg.1 of 1

Location: **Humacao, PR**Drilling Co: **GeoEnviroTech**Date Completed: **12/08/11**Drilling Method: **Direct Push**Date Started: **12/08/11**Meas Pt/ Elev (ft amsl): **N/A**Sampler / Drop: **4' by 2" Macrocore**Logged by: **T. Taylor/N. Rivera**Ground Elev (ft amsl): **N/A**Borehole Dia: **3.25"**Reviewed by: **T. Taylor**

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------

0				GP		(0"-1") GRAVEL, gray, NO ODOR.
0.1						
0.5		0-4 35/48"		CL		(1'-2'11") CLAY, with some sand, few silt and trace gravel, brown to gray, moist, stiff, NO ODOR.
1.9						
1.4						
0.8						(2'11"-4') NO RECOVERY.
-4						
0.3				ML		(4'-5'2") SILT, with some sand, and trace gravel, light brown to gray, moist, stiff, NO ODOR.
0.9						
2.6		4-8 48/48"		CL		(5'2"- 6'10) CLAY, with some silt, and trace sand, brown to gray, moist, stiff, SLIGHT ODOR.
3.5						
3.7						
4.4						
2						(6'10"-7'9") CLAY, with some silt, and trace sand, brown to black, moist, stiff, SLIGHT ODOR.
-8				SW		(8'-8'3") SAND, medium to coarse, well graded, dark brown, moist. SAMPLE I-19 (8-9') collected.
2.3				CL		(8'3"-9') CLAY, with some sand and trace silt, brown to gray, moist, SLIGHT ODOR.
205						
102		8-12 48/48"				
83						(9'-12') SAND, medium to coarse, well graded, gray to red, wet, SLIGHT ODOR.
25						
27						
29						
20				SW		(12'-14'6") SAND, medium to coarse, well graded, wet, gray to red, SLIGHT ODOR.
-12						
33						
60						
88						
90		12-16 36/48"				
61						
45				CL		(14'6"-15') CLAY, with some silt, gray to brown, moist, stiff, SLIGHT ODOR.
55						(15'-16') NO RECOVERY.
-16						End of Boring at 16 ft.

ANDERSON MULHOLLAND & ASSOCIATES, INC.

Environmental Consultants

110 Corporate Park Drive

White Plains, NY 10604

914-251-0400

Notes:

0.8 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

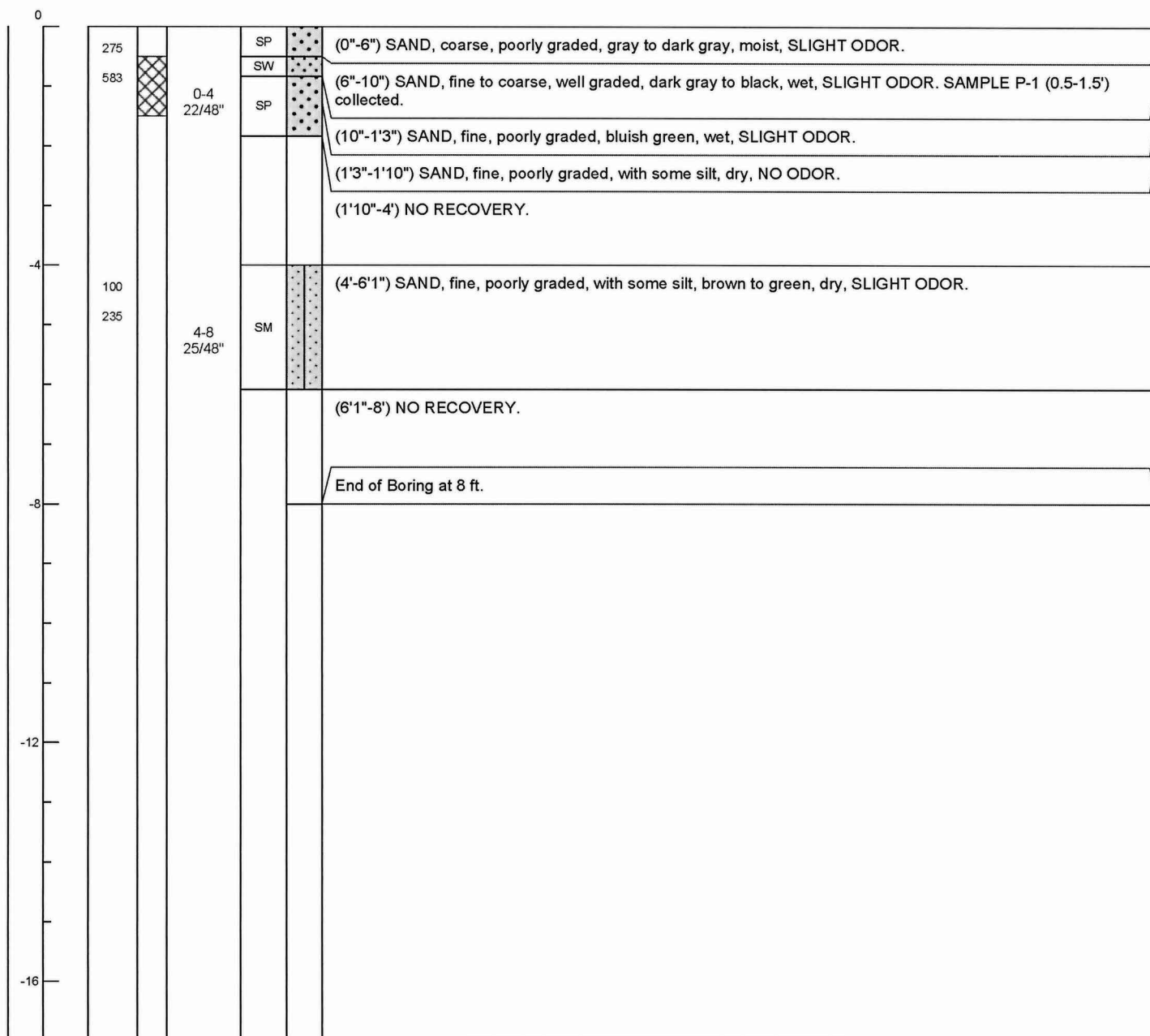
Pg. 1 of 1

Date Completed: 12/05/11Date Started: 12/05/11

Logged by: T. Taylor/N. Rivera

Reviewed by: T. Taylor

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION



Notes:

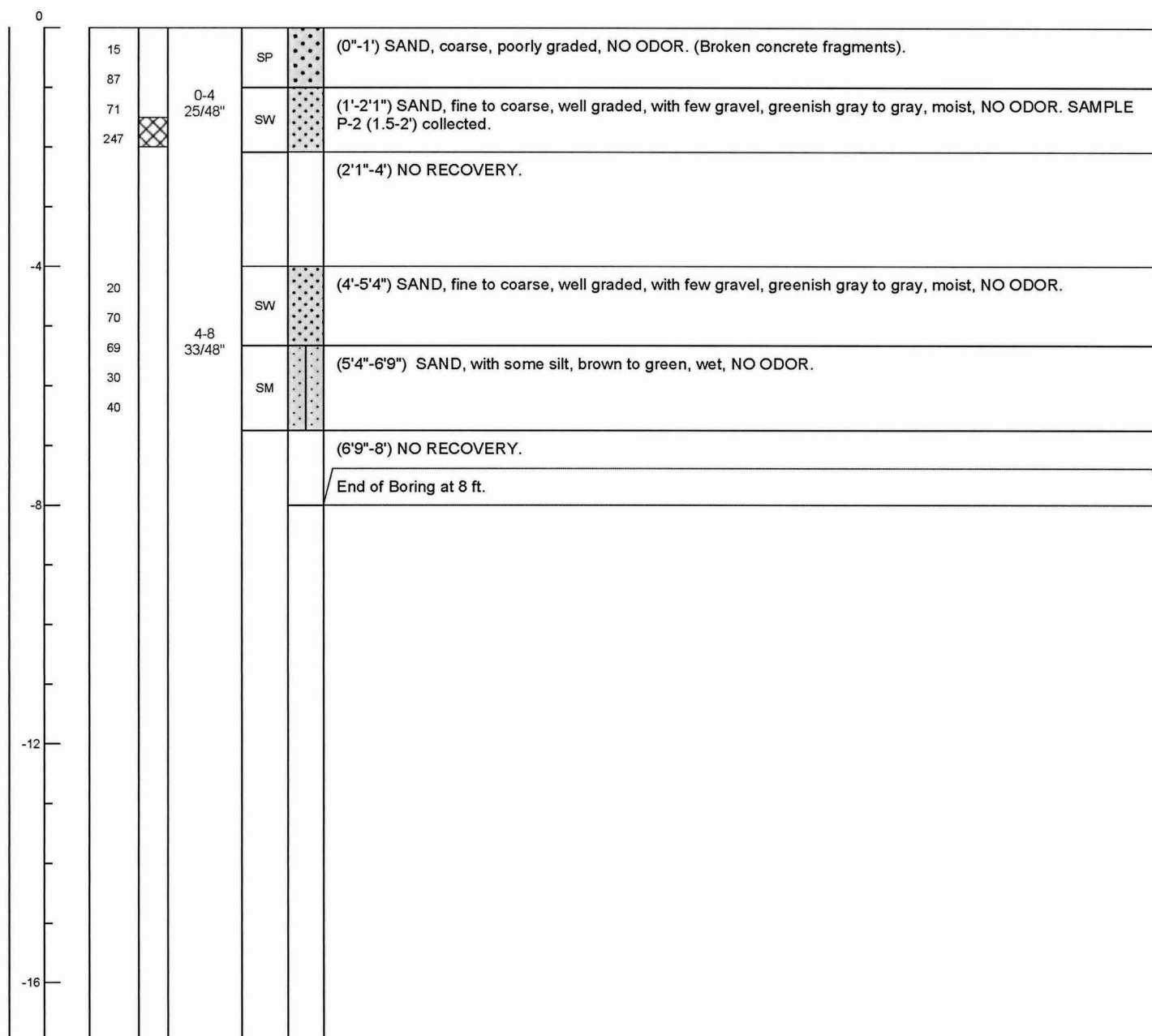
Water Level: N/A ft btc

Pg. 1 of 1Date Completed: 12/05/11Date Started: 12/05/11

Logged by: T. Taylor/N. Rivera

Reviewed by: T. Taylor

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION



914-251-0400

0 ppm in corehole prior to sampling

Water Level: N/A ft btc

Pg. 1 of 1

Date Completed: 12/05/11

Date Started: 12/05/11

Logged by: T. Taylor/N. Rivera

Reviewed by: T. Taylor

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION



914-251-0400

0 ppm in corehole prior to sampling

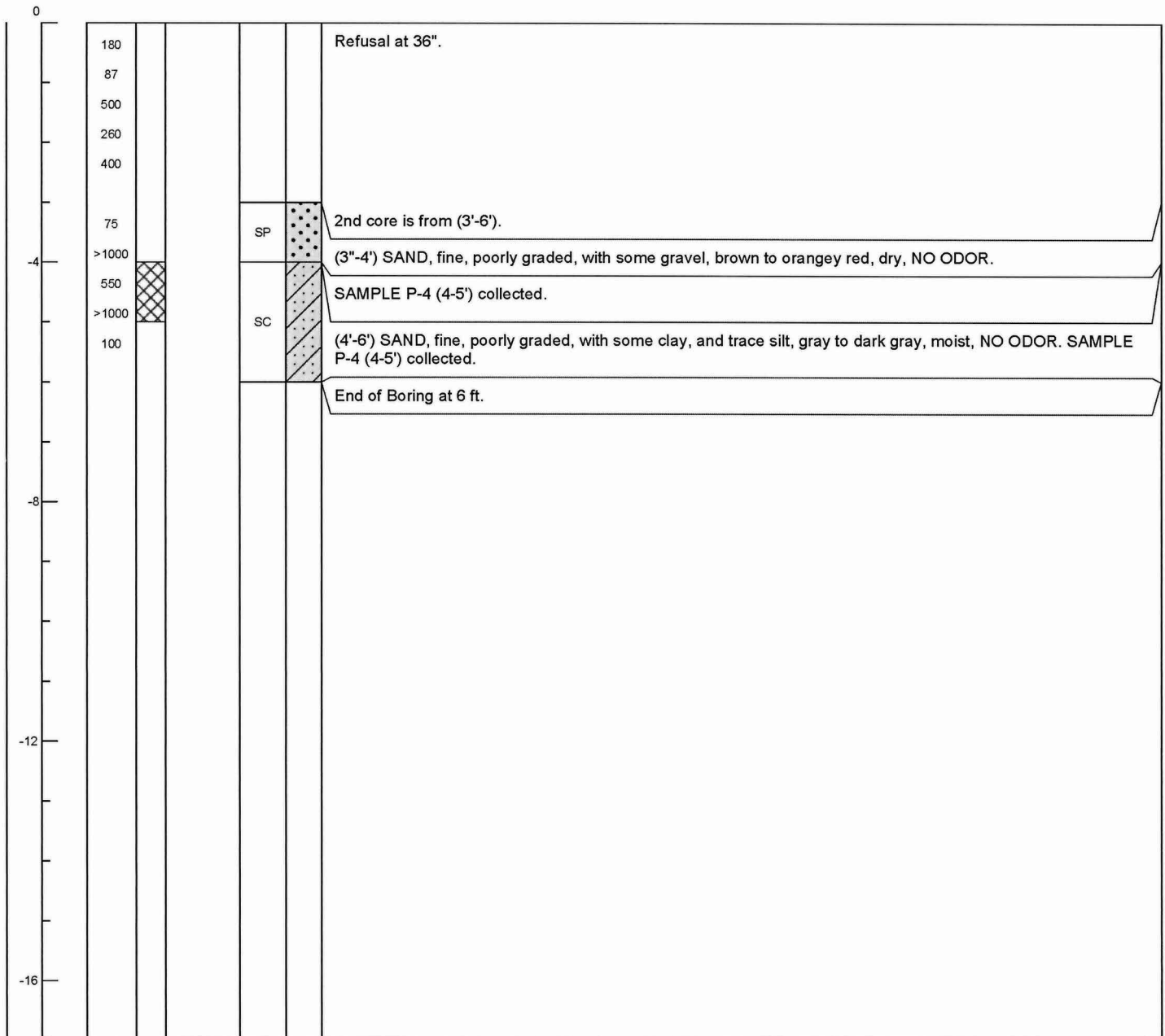
Water Level: N/A ft btc

Project: BMS- Building 5 AreaWell: P-4

Pg.1 of 1

Location: Humacao, PRDrilling Co: GeoEnviroTechDate Completed: 12/05/11Drilling Method: Direct PushDate Started: 12/05/11Meas Pt/ Elev (ft amsl): N/ASampler / Drop: 4' by 2" MacrocoreLogged by: T. Taylor/N. RiveraGround Elev (ft amsl): N/ABorehole Dia: 3.25"Reviewed by: T. Taylor

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------

**ANDERSON MULHOLLAND & ASSOCIATES, INC.**Environmental Consultants
110 Corporate Park Drive
White Plains, NY 10604
914-251-0400

Notes:

750 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

Project: **BMS- Building 5 Area**Well: **P-5**

Pg.1 of 1

Location: **Humacao, PR**Drilling Co: **GeoEnviroTech**Date Completed: **12/08/11**Drilling Method: **Direct Push**Date Started: **12/08/11**Meas Pt/ Elev (ft amsl): **N/A**Sampler / Drop: **4' by 2" Macrocore**Logged by: **T. Taylor/N. Rivera**Ground Elev (ft amsl): **N/A**Borehole Dia: **3.25"**Reviewed by: **T. Taylor**

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------

0						
60				CL		(0"-8") CLAY, with some gravel, few sand, and trace silt, black to brown, NO ODOR.
47						(8"-1'1") CLAY, with some sand, few silt, and trace gravel, brown to gray, moist, stiff, NO ODOR.
						(1'1"-4') No Recovery.
			0-4 13/48"			
-4				CL		(4'-4'6") CLAY, with some sand, few silt, and trace gravel, brown, dark brown, and gray, moist, stiff, NO ODOR.
103						(4'6"-5'4") CLAY, with some sand, and few silt, gray, dark gray, and brown, moist, stiff, SLIGHT ODOR.
772						SAMPLE P-5 (4.5-5.5') collected.
422				SM		(5'4"-5'6") SAND, medium to coarse, well graded, with some silt, gray, violet, and yellowish brown, moist, NO ODOR.
			4-8 18/48"			(5'6"-8') No Recovery.
						End of Boring at 8 ft.
-8						
-12						
-16						

ANDERSON MULHOLLAND & ASSOCIATES, INC.

Environmental Consultants

110 Corporate Park Drive

White Plains, NY 10604

914-251-0400

Notes:

650 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

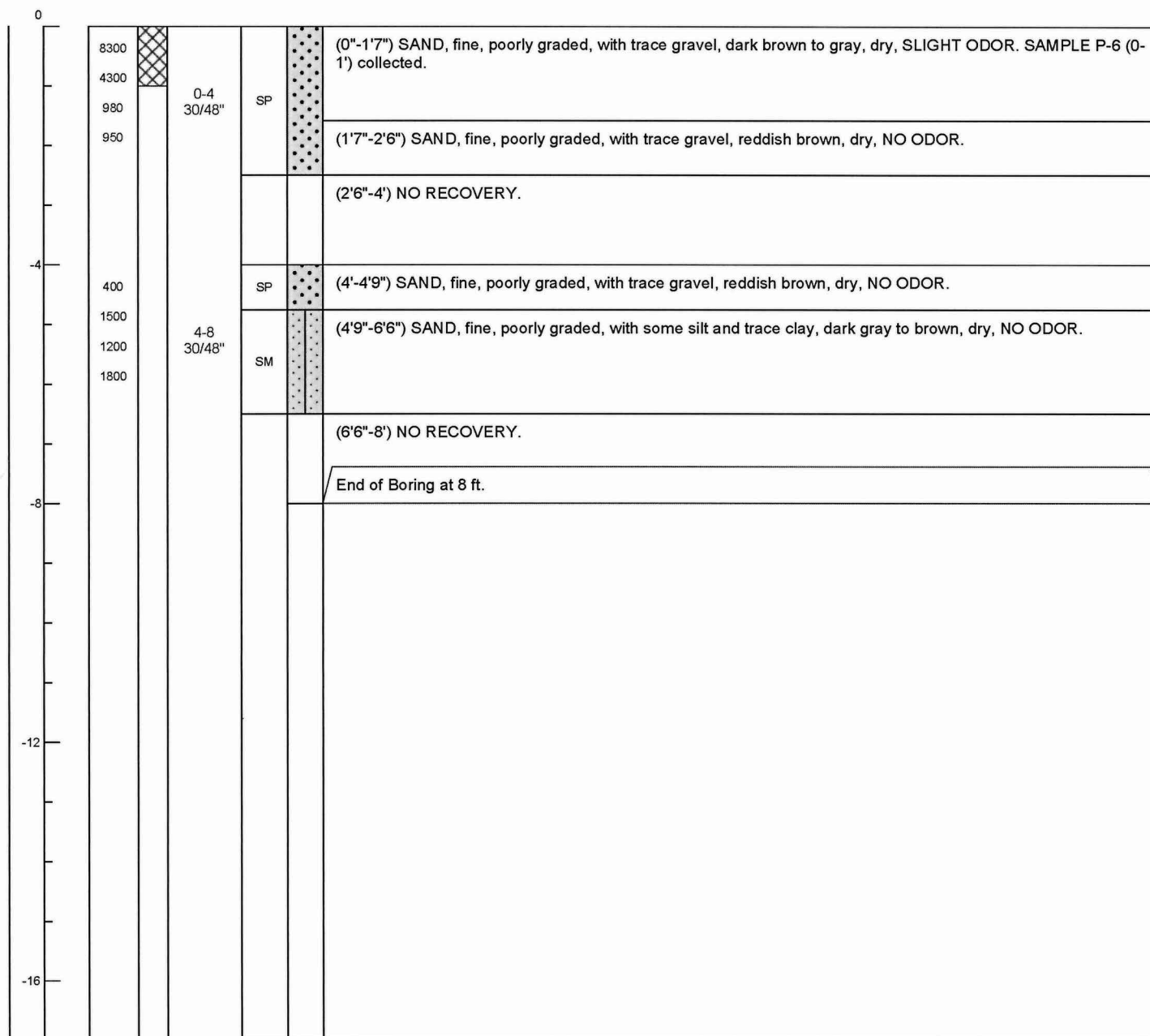
Water Level: N/A ft btc

Pg. 1 of 1Date Completed: 12/05/11Date Started: 12/05/11

Logged by: T. Taylor/N. Rivera

Reviewed by: T. Taylor

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION



914-251-0400

1300 ppm in corehole prior to sampling

Water Level: N/A ft btc

Location: Humacao, PRDrilling Co: GeoEnviroTechDate Completed: 12/05/11Drilling Method: Direct PushDate Started: 12/05/11Meas Pt/ Elev (ft amsl): N/A

Sampler / Drop: 4' by 2" Macrocore

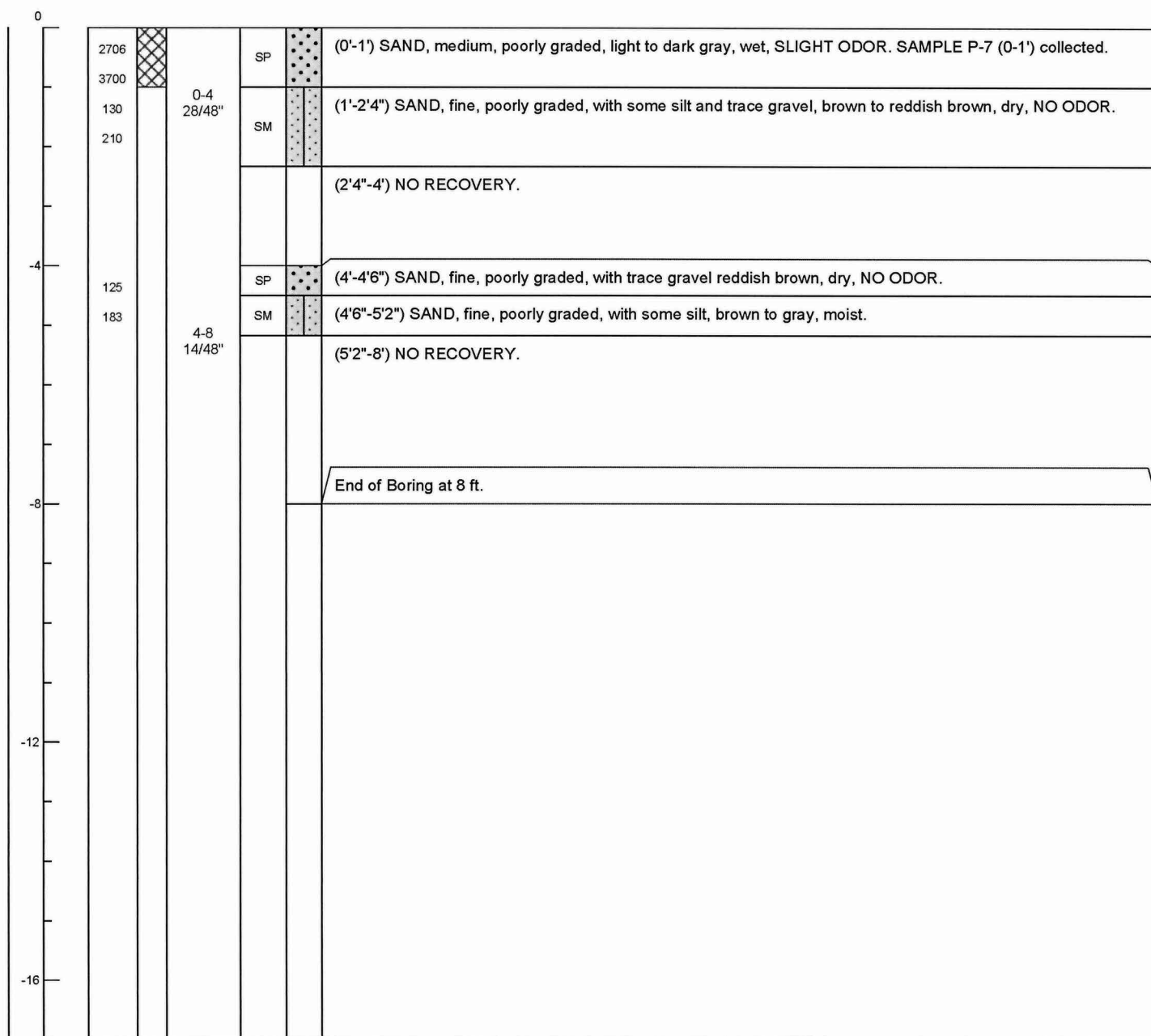
Logged by: T. Taylor/N. Rivera

Ground Elev (ft amsl): N/A

Borehole Dia: 3.25"

Reviewed by: T. Taylor

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION



ANDERSON MULHOLLAND & ASSOCIATES, INC.

Environmental Consultants
110 Corporate Park Drive
White Plains, NY 10604
914-251-0400

Notes:

70 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

Project: **BMS- Building 5 Area**Well: **P-8**

Pg. 1 of 1

Location: **Humacao, PR**Drilling Co: **GeoEnviroTech**Date Completed: **12/08/11**Drilling Method: **Direct Push**Date Started: **12/08/11**Meas Pt/ Elev (ft amsl): **N/A**Sampler / Drop: **4' by 2" Macrocore**Logged by: **T. Taylor/N. Rivera**Ground Elev (ft amsl): **N/A**Borehole Dia: **3.25"**Reviewed by: **T. Taylor**

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------



ANDERSON MULHOLLAND & ASSOCIATES, INC.

Environmental Consultants

110 Corporate Park Drive

White Plains, NY 10604

914-251-0400

Notes:

180 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

Water Level: N/A ft btc

Project: BMS- Building 5 Area

 Well: **P-9**

Pg.1 of 1

 Location: **Humacao, PR**

 Drilling Co: **GeoEnviroTech**

 Date Completed: **12/08/11**

 Drilling Method: **Direct Push**

 Date Started: **12/08/11**

 Meas Pt/ Elev (ft amsl): **N/A**

 Sampler / Drop: **4' by 2" Macrocore**

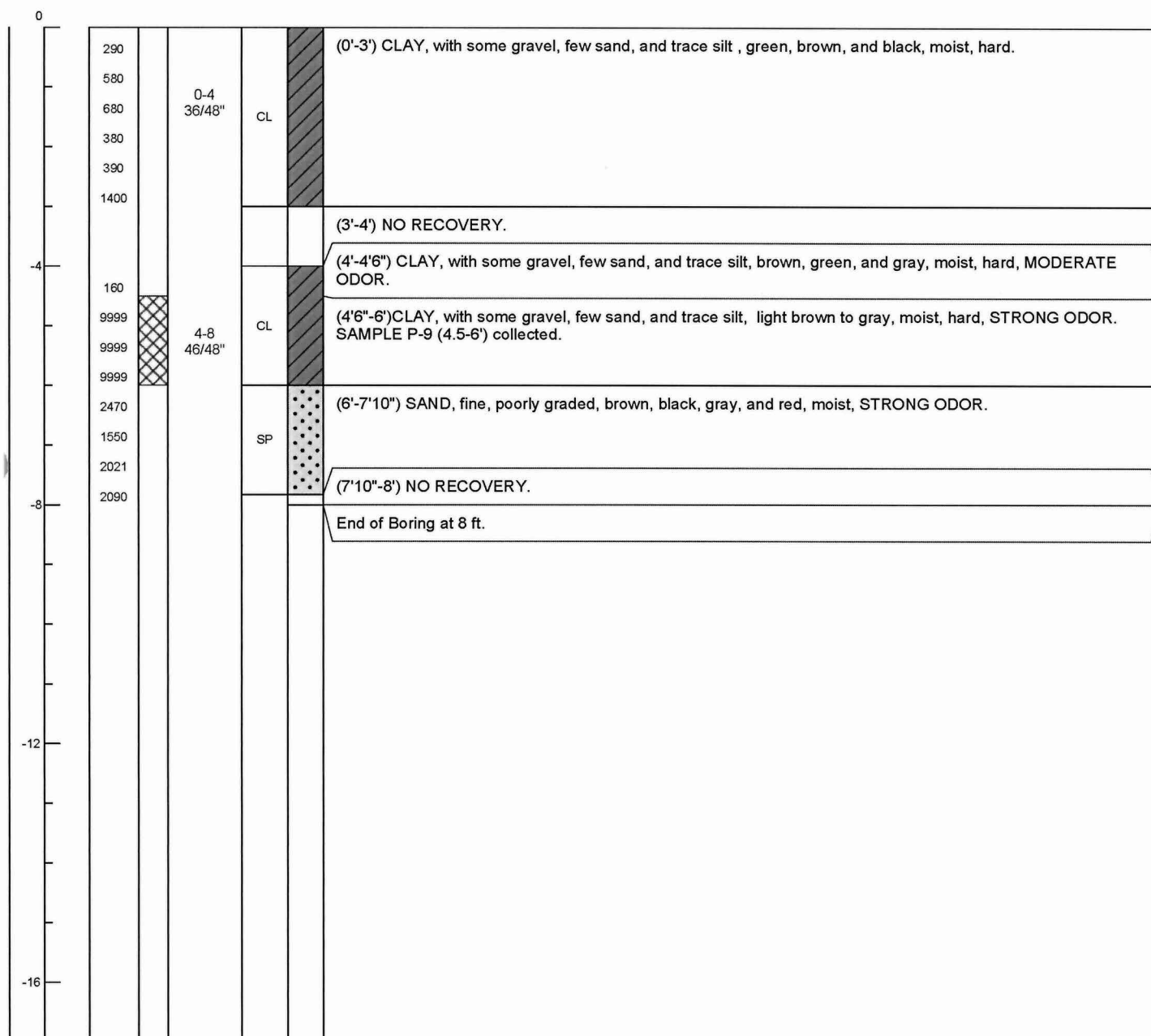
 Logged by: **T. Taylor/N. Rivera**

 Ground Elev (ft amsl): **N/A**

 Borehole Dia: **3.25"**

 Reviewed by: **T. Taylor**

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------


ANDERSON MULHOLLAND & ASSOCIATES, INC.

 Environmental Consultants
 110 Corporate Park Drive
 White Plains, NY 10604
 914-251-0400

Notes:

9999 ppm in corehole prior to sampling

Water Level ATD: N/A ft bgl

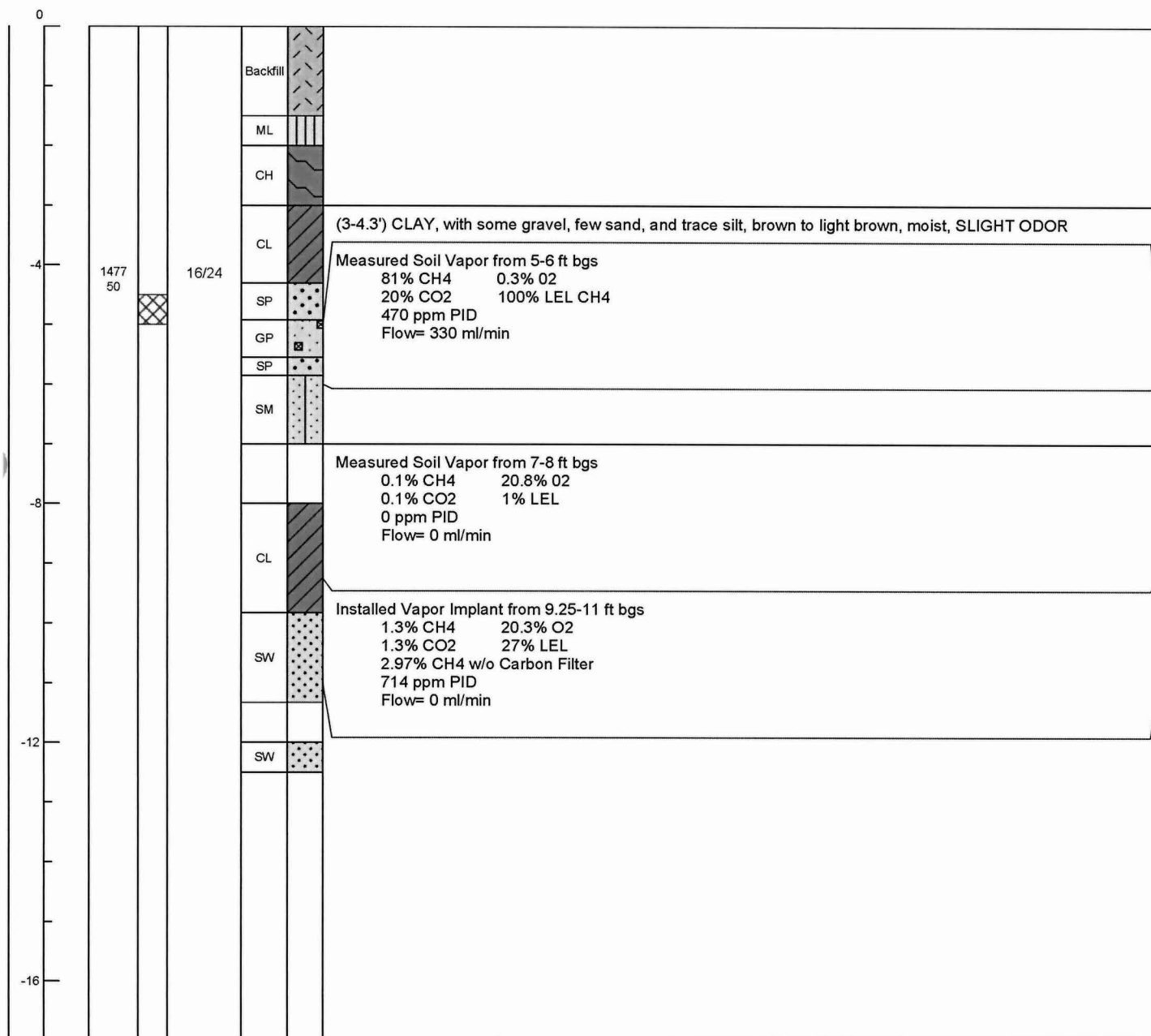
Water Level: N/A ft btc

Project: **BMS Humacao**Well: **I-7A**

Pg. of

Location: **Humacao, PR**Drilling Co: **Geoenvirotech**Date Completed: **2/2/2012**Drilling Method: **Direct Push**Date Started: **2/2/2012**Meas Pt/ Elev (ft amsl): **N/A/**Sampler / Drop: **N/A**Logged by: **N. Rivera**Ground Elev (ft amsl): **N/A**Borehole Dia: **4' by 2" Macrocore**Reviewed by: **T. Taylor**

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------

**ANDERSON MULHOLLAND & ASSOCIATES, INC.**

Environmental Consultants

110 Corporate Park Drive

White Plains, NY 10604

914-251-0400

Notes:

Collected TO-3/TO-15 at 4 ft bgs

Water Level ATD: N/A ft bgl

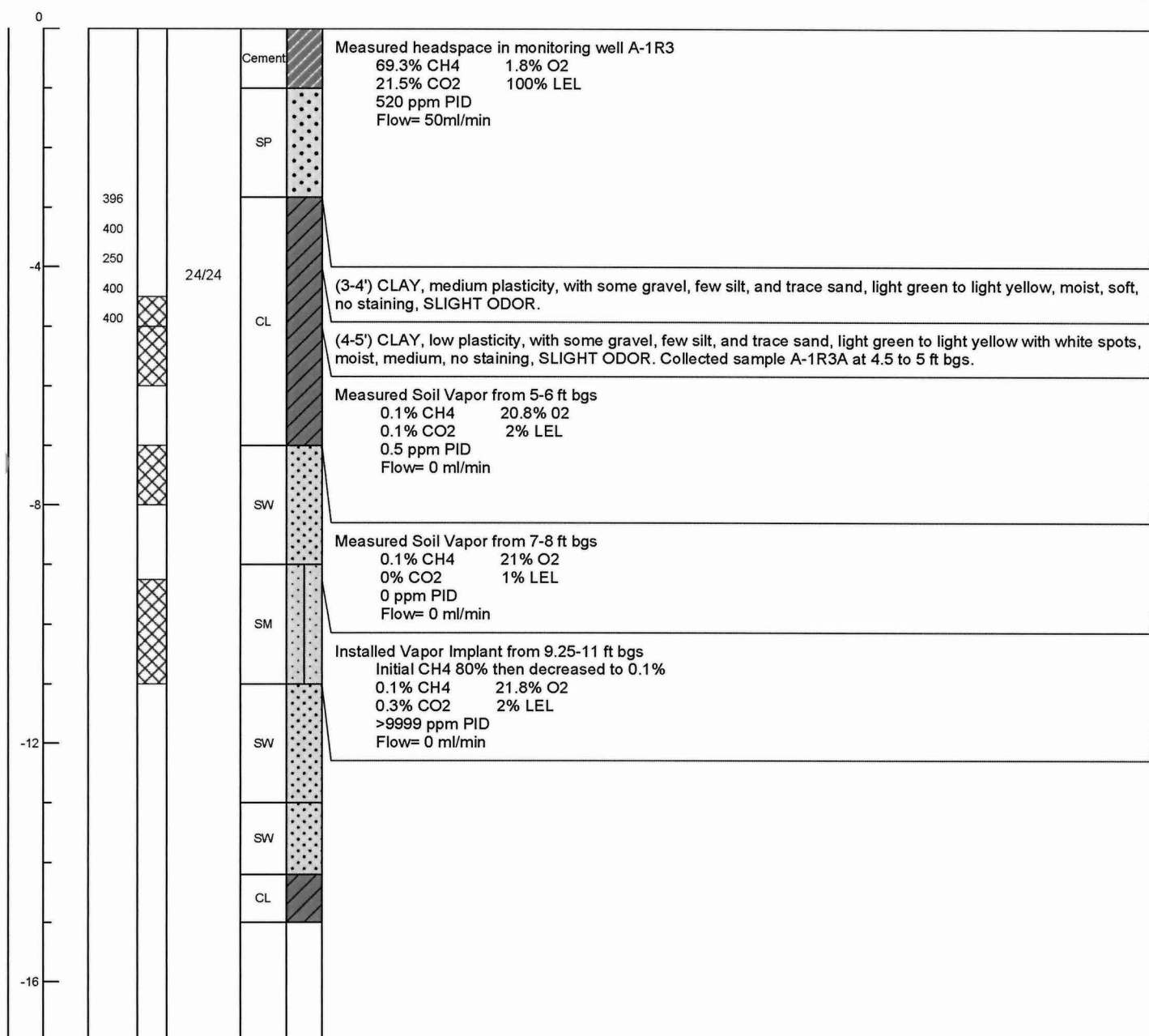
Water Level: N/A ft btc

Project: **BMS Humacao**Well: **A-1R3A**

Pg. of

Location: **Humacao, PR**Drilling Co: **Geoenvirotech**Date Completed: **2/2/2012**Drilling Method: **Direct Push**Date Started: **2/2/2012**Meas Pt/ Elev (ft amsl): **N/A**Sampler / Drop: **N/A**Logged by: **N. Rivera**Ground Elev (ft amsl): **N/A**Borehole Dia: **4' by 2" Macrocore**Reviewed by: **T. Taylor**

DEPTH (ft)	PID (ppm)	SAMPLES	RECOVERY (in)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION
------------	-----------	---------	---------------	-------------	-------------	------------------

**ANDERSON MULHOLLAND & ASSOCIATES, INC.**

Environmental Consultants

110 Corporate Park Drive

White Plains, NY 10604

914-251-0400

Notes:

Collected TO-3/TO-15 at 3.5 ft bgs above the water in the borehole

Water Level ATD: 4 ft bgl

Water Level: N/A ft btc

Appendix B

Laboratory Analytical Data and Data Validation Reports (On CD)

Appendix C

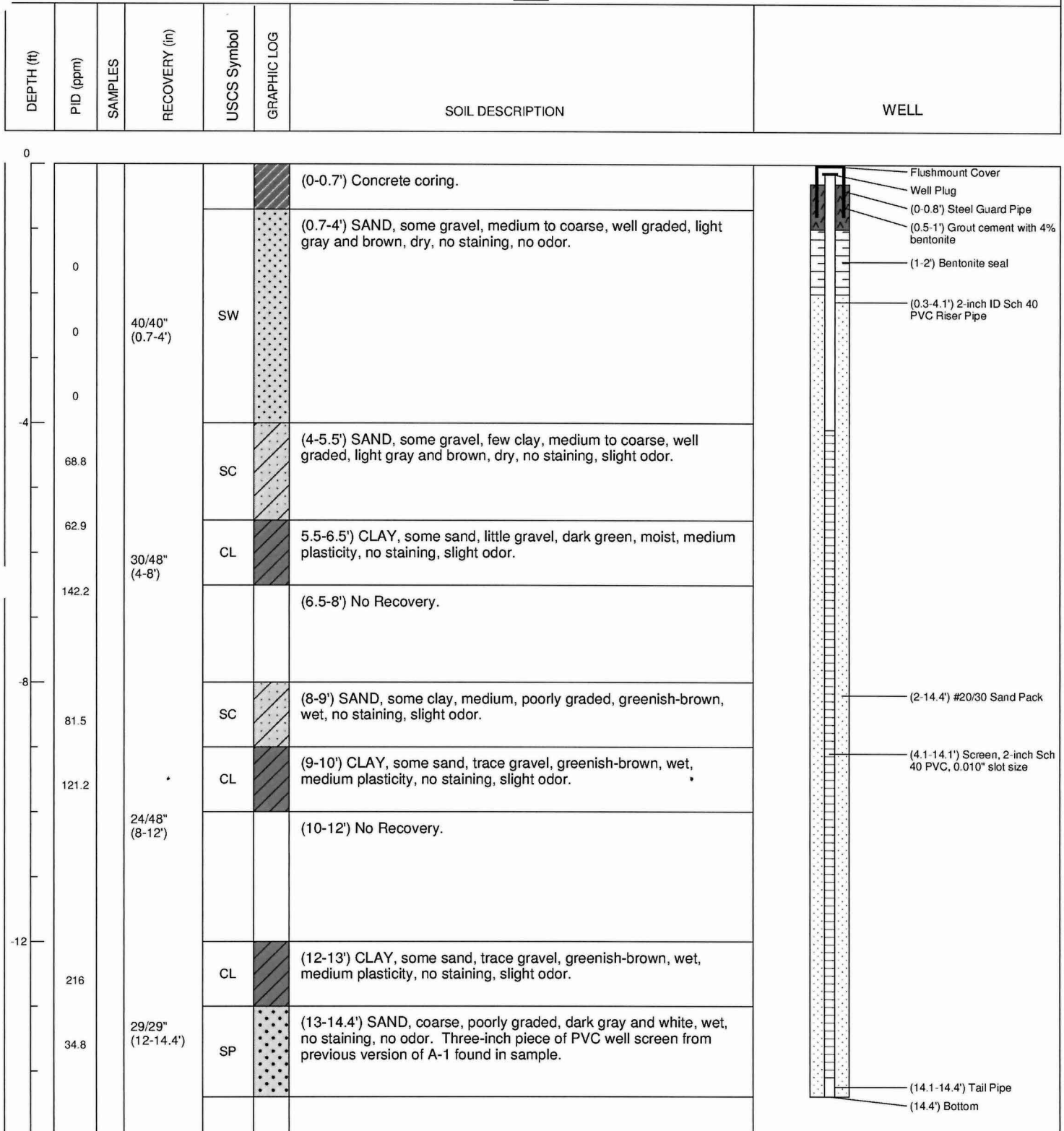
2007 Area C and D Pre-Design Investigation (on CD)

Appendix D

Monitoring Well A-1R4 Well Construction Log

Project: BMS-Building 5/6 ExpansionWell: **A-1R4**

Pg. 1 of 1

Location: **BMS**
Humacao, PRDrilling Co: **GeoEnviroTech**
Drilling Method: **Hollow Stem Auger**
Sampler / Drop: **4 ft Macrocore**
Borehole Dia: **7.25"**Date Completed: **4/25/13**
Date Started: **4/25/13**
Logged by: **Richard O'Reilly**
Reviewed by: **Terry Taylor**Meas Pt/ Elev (ft amsl): **19.383**Ground Elev (ft amsl): **19.626****ANDERSON MULHOLLAND & ASSOCIATES, INC.**Environmental Consultants
110 Corporate Park Drive
White Plains, NY 10604
914-251-0400Notes:
Replacement well for A-1R3.

Water Level ATD: NA ft bgl

Water Level: 4.80 ft btc

Appendix E

Pre-Excavation Construction Debris Waste Disposal Log and Manifests (on CD)

Appendix F

Graphical Illustration of Clean and Impacted Soil within Each Cell

Depth and Volume of Clean and Impacted Soil in Each Cell
Bristol-Myers Squibb Manufacturing Company
Humacao, Puerto Rico

Cell Number	Depth of Clean Soil (ft bgs)	Volume of Clean Soil (cu yds)	Depth of Impacted Soil (ft bgs)	Volume of Impacted Soil (cu yds)
E-1S	3.0	12	10.0	26
E-1N	3.0	12	15.0	45
E-2	4.0	30	12.0	60
E-3	5.0	38	11.5	49
E-4	0.0	0	10.0	75
E-7S	8.0	83	13.0	52
E-7N	7.0	73	13.0	63
E-8S	8.0	83	12.0	42
E-8N	6.0	63	12.0	63
E-12S	2.0	21	12.5	109
E-12N	4.0	42	13.0	94
E-16S	0.0	0	13.5	140
E-16N	5.0	52	11.5	68
E-17S	9.5	99	12.0	26
E-17N	5.0	52	11.5	68
D-26W	10.0	104	13.0	32
D-26E	7.0	73	13.0	63
D-29	4.0	83	13.0	187
D-31S	8.0	83	11.0	32
D-31N	2.0	21	10.0	83
D-32S	8.0	83	13.0	52
D-32N	4.0	42	14.0	104
D-34	3.5	73	13.0	198
D-36W	10.0	104	13.0	32
D-36E	7.0	73	11.5	47

Total Cubic Yards

1399

1810

Depth	Cell E-4		Cell E-3		Cell E-2		Cell E-1	Depth
<i>Ground Surface</i>								
0			Clean Depth		Clean Depth		Clean Depth	0
0.5								0.5
1								1
1.5								1.5
2								2
2.5								2.5
3								396
3.5								3.5
4								4
4.5								4.5
5								5
5.5								5.5
6								6
6.5								6.5
7								7
7.5								7.5
8								8
8.5								8.5
9								9
9.5								9.5
10								264
10.5							E-1S	10.5
11								11
11.5								11.5
12								12
12.5								12.5
13								13
13.5								13.5
14								14
14.5								14.5
15								15
15.5								15.5

 Impacted soil interval moved to treatment cell.

Depth	Cell E-8			Cell E-7			Cell D-26			Cell D-29		Depth
Ground Surface												
0	Clean Depth	Clean Depth		Clean Depth	Clean Depth		Clean Depth	Clean Depth		Clean Depth		0
0.5												0.5
1												1
1.5												1.5
2												2
2.5												2.5
3												3
3.5												3.5
4												4
4.5												4.5
5												5
5.5												5.5
6	6											
6.5	E-8N	E-8S		E-7N	E-7S		D-26W	D-26E			6.5	
7											7	
7.5											7.5	
8											8	
8.5											8.5	
9											9	
9.5											9.5	
10											10	
10.5											10.5	
11											11	
11.5											11.5	
12											12	
12.5											12.5	
13											13	
13.5											13.5	
14											14	
14.5											14.5	
15											15	
15.5											15.5	

 Impacted soil interval moved to treatment cell.

Depth	Cell E-12		Cell D-31		Cell D-32		Cell D-34	Depth
Ground Surface								
0								0
0.5								0.5
1								1
1.5								1.5
2								2
2.5								2.5
3								3
3.5								3.5
4								4
4.5								4.5
5								5
5.5								5.5
6								6
6.5								6.5
7								7
7.5								7.5
8								8
8.5								8.5
9								9
9.5								9.5
10								10
10.5								10.5
11								11
11.5								11.5
12								12
12.5								12.5
13								13
13.5								13.5
14								14
14.5								14.5
15								15
15.5								15.5

 Impacted soil interval moved to treatment cell.

Depth	Cell E-17		Cell E-16		Cell D-36		Depth
Ground Surface							
0	Clean Depth	Clean Depth	Clean Depth		Clean Depth	Clean Depth	0
0.5							0.5
1							1
1.5							1.5
2							2
2.5							2.5
3							3
3.5							3.5
4							4
4.5							4.5
5	E-17N	E-17S	E-16N	E-16S	D-36W	D-36E	5
5.5							5.5
6							6
6.5							6.5
7							7
7.5							7.5
8							8
8.5							8.5
9							9
9.5							9.5
10	E-17S						10
10.5							10.5
11							11
11.5							11.5
12							12
12.5							12.5
13							13
13.5	D-36W						13.5
14							14
14.5							14.5
15							15
15.5							15.5

 Impacted soil interval moved to treatment cell.

Appendix G

Analytical Laboratory and Data Validation Reports (on CD)

Appendix H

Perimeter Air Monitoring Results (on CD)